Colour Television **Chassis**

TPT1.2A

LA

Service
Service
Service

47PFL7422/93

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040407

Service Manual

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PHILIPS

1. Technical Specifications and Connections and Chassis Overview

Index of this chapter:
1.1 Technical Specifications
1.2 Connections
1.3 Chassis Overview

Notes:
- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Specifications are indicative (subject to change).

1.1 Technical Specifications

1.1.1 Technical Specifications

Display type	: LCD
Screen size	: 47"(119cm), 16:9 42"(107cm), 16:9
Resolution (HxV pixels)	: 1920(H) x 1080(V)
Contrast ratio	: 1000:1 (47")
Light output (cd/m2)	: >400
Response time (ms)	: 8ms(Typ.)
Viewing angle (HxV degrees)	: 178/178
Tuning system	: PAL D/K for 93 model : PAL B/G、I and SECAM B/G、D/K for 98 model : PAL D/K、I and NTSC-M for 79 model
Supported video formats	: 640 x 350 60Hz 640 x 480 60Hz 720 x 400 60Hz 800 x 600 60Hz 832 x 624 60Hz 1024 x 768 60Hz 1280 x 720 60Hz 1280 x 768 60Hz 1360 x 768 60Hz 1280 x 1024 60Hz 1920 x 1080 60Hz
HD support timing	: 1920X1080i 50 Hz 1920X1080i 59 Hz 1920X1080i 60 Hz 1920X1080p 60 Hz 1920X1080p 59 Hz 1920X1080p 50 Hz 1280X720P 60Hz 1280X720P 59Hz 1280X720P 50Hz 1440x576p 50 Hz 1440x576i 50 Hz 1440x480p 60 Hz 1440x480i 60 Hz 1440x480p 59 Hz 1440x480i 59 Hz 720X576P 50Hz 720X480P 60Hz 720X480P 59Hz

1.1.2 Sound

Sound systems	: Stereo / Virtual Surround
Maximum power	: 2 x 10W

1.1.3 Miscellaneous

Power Supply	
-AC/DC Power adapter	: 90V ~ 264VAC,50/60±2Hz
-Power consumption	: 320W/Max(at PC mode), 320W/Max(at TV mode) with Audio.
-Power cord length	: 1.8m
-Power cord type	: 2pin Euro、 3pin UK for 98 China for 93 3 pin Aus、 2 pin NAFTA for 79
-Power indicator	: LED (On: Blue,Sleeping mode: Amber)
-Auto power saving	: <2W
-Stand-by	: <2W

Horizontal scan

-Horizontal	: 30 - 70KHz
-Vertical	: 56 - 76Hz

Dimensions (WxHxD in mm) : 1096.0 x 640.0 x 51.0

Ambient conditions:

-Temperature	:0°C to 40°C
-Humidity	:20 to 70%

1.2 Connections

1.2.1 Signal Connector

1. Tuner: PAL D/K for 93 model
   PAL B/G、I and SECAM B/G、D/K for 98 model
   PAL D/K、I and NTSC-M for 79 model
2. S/PDIF OUT : Digital audio output (HDMI audio output)
3. PVR OUT : Composite video output (CVBS) and audio R/L(RCA jack)
4. AV audio IN : AV1 and S-Video audio R/L(RCA jack)
5. AV1 IN : Composite video input(AV)
6. S-Video 1 IN : S-video input (AV)
7. iTV Level 1：Rx/Tx communicate
8. Compair：Rx/Tx communicate
9. PC audio IN: audio R/L(mini-jack).
10. CVI 1 IN : Component input with YPbPr format with audio R/L.
11. CVI 2 IN : Component input with YPbPr format with audio R/L.
12. PC IN: VGA input (D-SUB connectors)
12. HDMI 1 : digital video and audio input
14. HDMI 2 : digital video and audio input
15. speaker output : internal speakers output connectors
16. earphone : earphone jack
17. AV2 IN : Composite video input (Side AV)
18. AV audio IN : AV2 and S-Video 2 side audio R/L(RCA jack)
19. S-Video 2 IN : S-video input (Side AV)

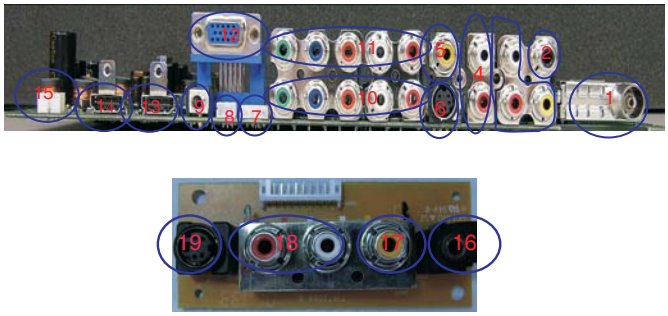


Fig1-1

1.2.2 Input signal

1.2.2.1 Signal type

PC Signal type

Analog Video	: 0.7 Vp-p linear, positive polarity
Separate Sync.	: TTL level, separate, positive or negative polarity
Signal source	: pattern generator format
Reference generator	: Quantum Data 801GD, 802G or 802R Pattern Generator

A. PC Audio input

Location: Rear down side

Specification

Audio L/R input

- Nominal : 0.5 V rms.
- Maximum:1.5Vrms.
- Impedance > 10 kΩ.

Note : the input will be overloaded when the signal > 1.5 V rms.
Connector type : 3.5 mm mini Jack
ESD-protected : 15 kV

TV Signal type

a. RF Signal : Aerial input / 10mV(30-100dBuV)

b. Video signal : CVBS input (RCA jack) / 1Vpp (300mV-sync, 700mV-video.)
S video input / 1VppY-signal, +/-300mV C-signal
Comp video in(YPbPr input)/ 1Vpp Y signal, +/-350mV Pb,Pr signal

HDMI:Digital interface with 4 channels TMDS signal
CVBS output (RCA jack) / 1Vpp (300mV-sync, 700mV-video.)

c. Audio signal : Audio (1) R/L for AV IN(AV and S-Video).
Level:- Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 kΩ.
Audio (2) R/L for Comp video(CVI) IN.
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 kΩ.
Audio (3) digital audio for HDMI Video IN.

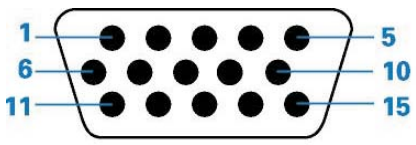
d. PVR (CVBS) output:
Video: CVBS output 1Vpp / Impedance : 75Ω.
Audio: R/L output (from CVBS)
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance < 1 kΩ.

e. SPDIF output: Serial digital audio output when input is HDMI.

f. Headphone
Audio: R/L output 10mW at 32Ω.
3.5mm stereo jack with switch
Impedance is between 8 and 600Ω

PC input connectors

D-sub Pin assignment

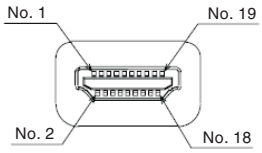


PIN No.	SIGNAL b(PC)
1	Red
2	Green
3	Blue
4	NC
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	+5V (Supply from PC)
10	Sync GND
11	NC
12	SDA
13	H-sync
14	V-sync
15	SCL

TV video input /output connectors

A. HDMI for digital Video / Audio interface with pin assignment as follows:

Type A Connector



PIN No.	SIGNAL
1	TMDS Data2+
2	TMDS Data2 shield
3	TDMS Data2-
4	TMDS Data1+
5	TMDS Data1 shield
6	TMDS Data1-
7	TMDS Data0+
8	TMDS Data0 shield
9	TMDS Data0-
10	TMDS Clock+
11	TMDS Clock Shield
12	TMDS Clock-
13	CEC
14	Reserved (N.C. on device)
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug Detect

B. CVBS

The input signals are applied to display through CVBS cable

Pin assignment

PIN NO.	SIGNAL
1	GND
2	CVBS
3	CVBS
4	CVBS

C. S-Video

The input signals are applied to display through S-Video cable

Pin assignment

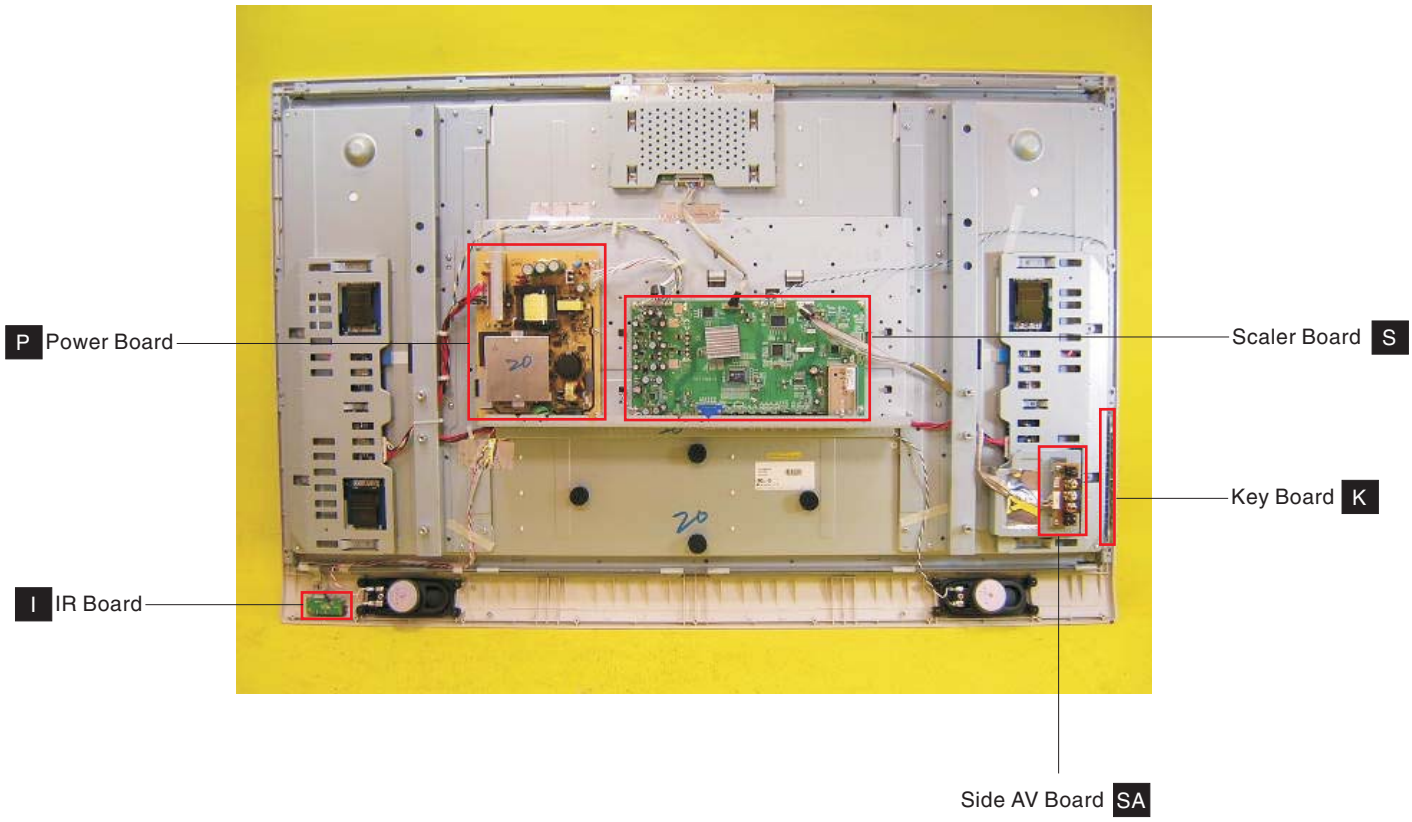
PIN NO.	SIGNAL
1	GND
2	GND
3	GND
4	GND
5	GND
6	LUMA
8	CHROMA

D. Component Video

The input signals are applied to display through Component Video RCA Jack pin assignment

PIN NO.	SIGNAL
1	GND
2	Red → Pr
3	GND
4	Blue → Pb
5	GND
6	Green →Y

1.3 Chassis Overview



2. Safety Instructions, Warnings, and Notes

Index of this chapter:

2.1 Safety Instructions
2.2 Warnings
2.3 Notes

2.1 Safety Instructions

Safety regulations require the following **during** a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol ⚠, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
  1. Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
  2. Set the Mains/AC Power switch to the "ON" position (keep the Mains/AC Power cord unplugged!).
  3. Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
  4. Switch "OFF" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
  – Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  – Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "ON".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (⏚), or hot ground (⏚), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with (⊓) and without (⊼) aerial signal. Measure the voltages in the power supply section both in normal operation (⏻) and in stand-by (⏻). These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
- Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the “double-D symbol”, are trademarks of Dolby Laboratories.

2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads (μ= x10^{-6}), nano-farads (n= x10^{-9}), or pico-farads (p= x10^{-12}).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 2006 week 17).

E_06532_024.eps
130606

Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.

Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
  – To reach a solder-tip temperature of at least 400°C.
  – To stabilise the adjusted temperature at the solder-tip.
  – To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch “off” unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly **to avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:
- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid mix of two alloys).

2.3.4 Alternative BOM identification

In September 2003, Philips CE introduced a change in the way the serial number (or production number, see Figure 2-1) is composed. From this date on, the **third digit** in the serial number (example: AG**2**B0335000001) indicates the number of the alternative BOM (Bill of Materials used for producing the specific model of TV set). It is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different O.E.M.s.
By looking at the third digit of the serial number, the service technician can see if there is more than one type of B.O.M. used in the production of the TV set he is working with. He can then consult the At Your Service Web site, where he can type in the Commercial Type Version Number of the TV set (e.g. 28PW9515/12), after which a screen will appear that gives information about the number of alternative B.O.M.s used.
If the third digit of the serial number contains the number 1 (example: AG**1**B033500001), then there is only one B.O.M. version of the TV set on the market. If the third digit is a 2 (example: AG**2**B0335000001), then there are two different B.O.M.s. Information about this is important for ordering the correct spare parts!
For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26 = 35 different B.O.M.s can be indicated by the third digit of the serial number.

2.3.5 Board Level Repair (BLR) or Component Level Repair (CLR)

If a board is defective, consult your repair procedure to decide if the board has to be exchanged or if it should be repaired on component level.
If your repair procedure says the board should be exchanged completely, do not solder on the defective board. Otherwise, it cannot be returned to the O.E.M. supplier for back charging!

2.3.6 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- **Always respect voltages**. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

3. Directions for Use

You can download this information from the following websites:
http://www.philips.com/support
http://www.p4c.philips.com

47PFL7422 OSD tree

PC MODE			
1st Layer	2nd Layer	3rd Layer	
Picture			
	Color temp	Normal Warm Cool	
	Brightness Contrast		
	Auto adjust	Yes	
	Manual adjust	Phase Clock Horizontal Vertical	
Sound			
	Smart sound	Personal Speech Music Movie Mulitimedia	Equalizer Equalizer Equalizer Equalizer Equalizer
	Virtual surround	On Off	
Features			
	Picture format	Full screen 4:3	
	PIP	Size	Off Small Large PBP
		Input	TV AV Side AV
		Position	1 2 3 4
		Sound	PC PIP

Install			
	Language	English 中文	
		Thai(79/98) Arabic(79/98)	
	Factory reset	No Yes	

TV / AV/ S-VIDEO / HD MODE				
1st layer	2nd layer	3rd layer	4th layer	5th layer
Picture				
	Smart picture	Personal Rich Nature Soft Multimedia		
	Contrast Brightness Color Sharpness			
	Color temp	Normal Warm Cool		
	Contrast+	On Off		
	Picture format	Super zoom 4:3 Movie expand 14:9 Movie expand 16:9 16:9 subtitle Widescreen		
Sound				
	Smart sound	Personal Speech Music Movie Mulitimedia	Equalizer Equalizer Equalizer Equalizer Equalizer	
	Virtual surround	On Off		

Features				
	Timer	Clock Start time Stop time Sleep timer		
	NR	On Off		
	Active control	On Off		
	Auto lock	Lock program Change code Clear all	 Yes On Off	
	Source list	TV HDMI 1 HDMI 2 CVI 1 CVI 2 AV Side AV PC		
Install				
	Language	English 中文 Thai(79/98) Arabic(79/98)		
	Auto store	Start ?	Auto store Please wait Prog. found Frequency	
	Manual store	Manual store Prog. no Finetune	MHz Start ?	
		Store	Store ? Stored	

	Channel setting	Channel edit	Channel Skipped	 Active Skipped
		Channel swap	From To Exchange	 Exchange ? Exchanged
		Name edit	Channel Name	
		Channel sort	Sort ?	Sorting . . . . . . Sort complete
	Factory reset	No Yes		

4. Mechanical Instructions

Index of this chapter:
4.1 Assy/Panel Removal
4.2 Set Re-assembly

4.1 Assy/Panel Removal

Notes: Please put your machine on soft material to avoid to scrape panel when you disassemble it.

Front view

Fig.1

Back view

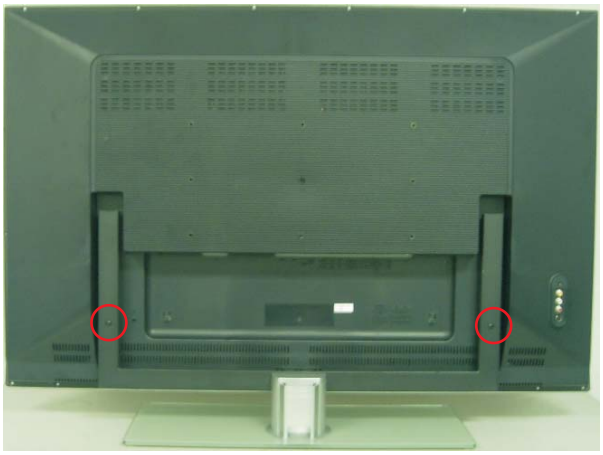


Fig.2

Step 1. Remove the Base.

Remove the 2 screws as Fig.2.

Step 2. Remove the Back cover and SHIELD-MAIN as Fig.3~5.

a. Remove the 27 screws, then remove the back cover as Fig.3.
b. Remove the 12 screws , then remove 3 BRACKET-WALL MOUNT SIDE as Fig.4.
c. Remove the 10 screws , then remove SHIELD-MAIN as Fig.5.

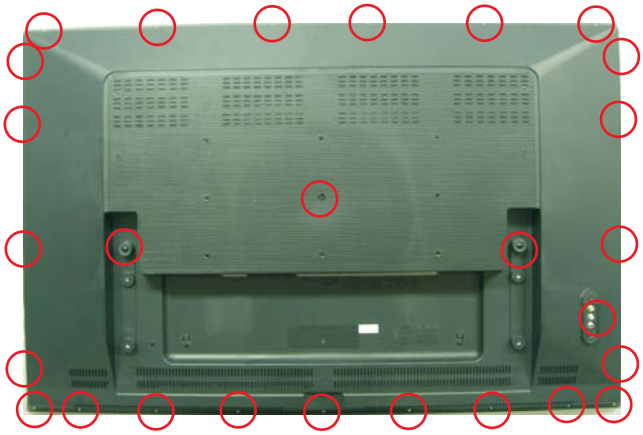


Fig.3

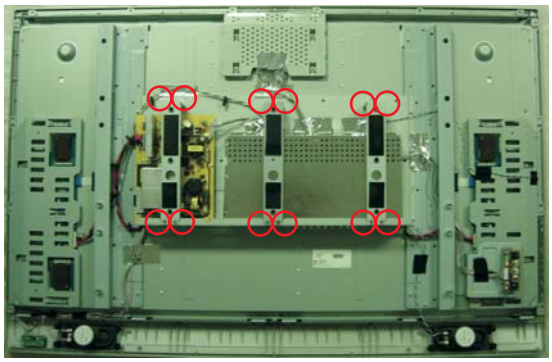


Fig.4

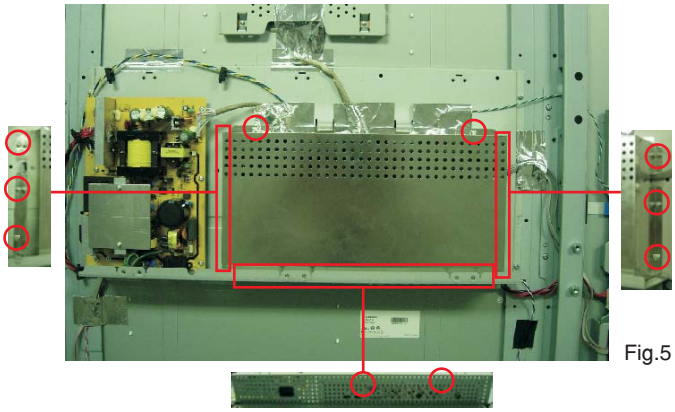


Fig.5

Step 3. Remove the Scaler, Power, IR, Key and Side AV board as Fig.6.

a. Remove the 16 screws and disconnect the 8 cables to remove the scaler board .
b. Remove the 7 screws and disconnect the 3 cables to remove the Power board.
c. Remove the 2 screws and disconnect the 1 cable to remove the IR board.
d. Remove the 2 screws and disconnect the 1 cable to remove the Side AV board.
e. Disconnect the 1 cable to remove the Key board.

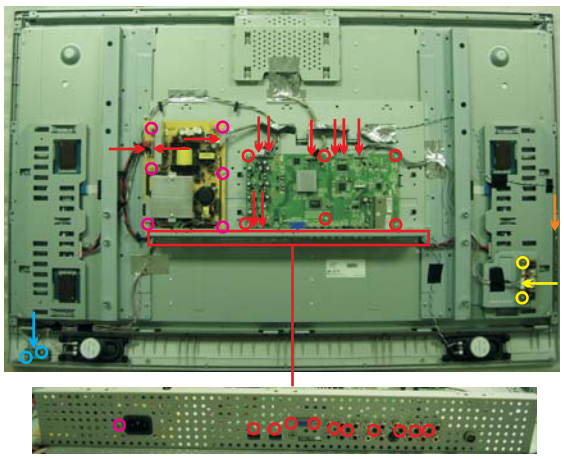


Fig.6

Step 4. Remove the speakers and the Frame assy as Fig.7~8.

a. Remove the 6 screws and disconnect 3 cables to remove the Frame PCB as Fig.7.
b. Remove the 8 screws and disconnect 3 cables to remove the Speaker as Fig.7.
c. Remove the 12 screws to remove BRACKET-BRIDGE-L/R as Fig.8.

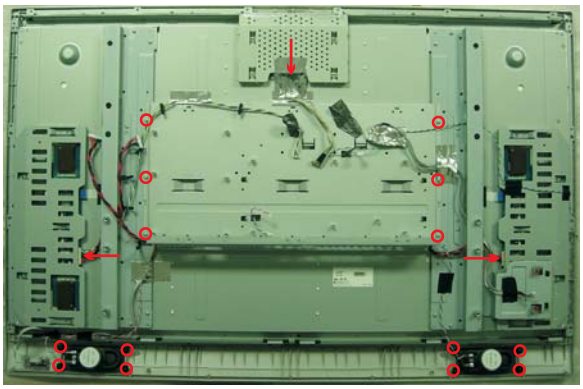


Fig.7

Fig.8

Step 5. Remove Front bezel ASSY as Fig.9~10.

Remove the 32 screws as Fig.9.

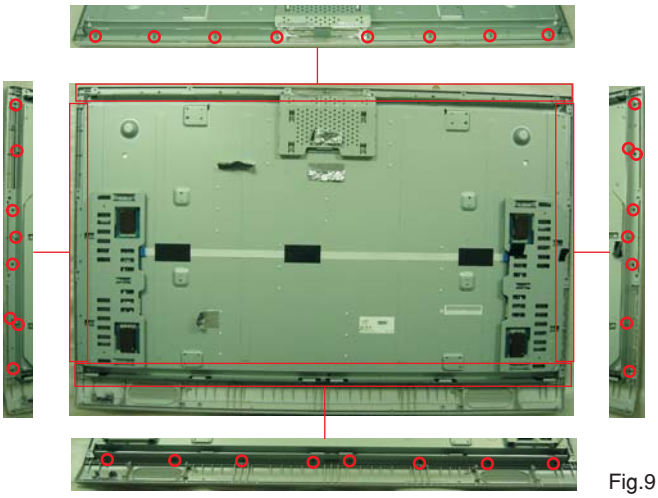


Fig.9

Fig.10

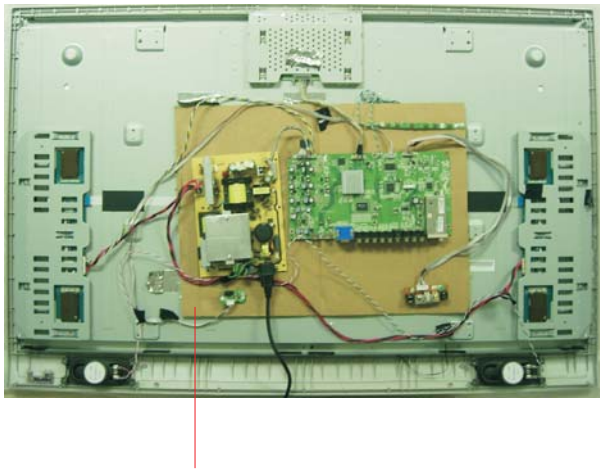


Fig.11

Insulation material

Service position

Notes: Please add insulation material between board and panel to avoid short ciucuit.

4.2 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

Notes:

a. While re-assembling, make sure that all cables are placed and connected in their original position.

b. Pay special attention not to damage the EMC foams at the SSB shielding. Check that EMC foams are put correctly on their places.

****

In warranty, it is not allowed to disassembly the LCD panel, even the backlight unit defect.

Out of warranty, the replacment of backlight unit is a correct way when the defect is cused by backlight (CCFL,Lamp).

****

5. Service Modes, Error Codes and Fault Finding

index of this chapter:
5.1 CSM
5.2 Factory Mode
5.3 Repair Flow Chart

5.1 CSM

It can display CSM windows message when press 1-2 3-6 5-4 on the button (RC) remote control in normal operation mode.
The following information is displayed on screen:

CSM Item	Contents	Remark
1: Set Type	47PFL7422/93	model name
2: Production code	BZ000651123456	14 digit production-code(serial number)
3: SW-naming main-processor	37 47LPL_1080_ V0010.0 20070302 CHINA 93	SW version(37 47:size, LPL_1080_: panel&input, V0010.0: software version, 20070302: software release date)
4: SW-naming other-processor	STF31E 1.0	
5: Code 1	FF FF FF FF FF	Error codes in NVM/EEPROM (5 last logged errors)
6: Code 2	FF FF FF FF FF	Error codes in NVM/EEPROM (5 first logged errors)
7: Key (HDCP) -HDMI	Enabled	HDMI information whether HDCP-key is valid
8: Analogue signal strength	255	

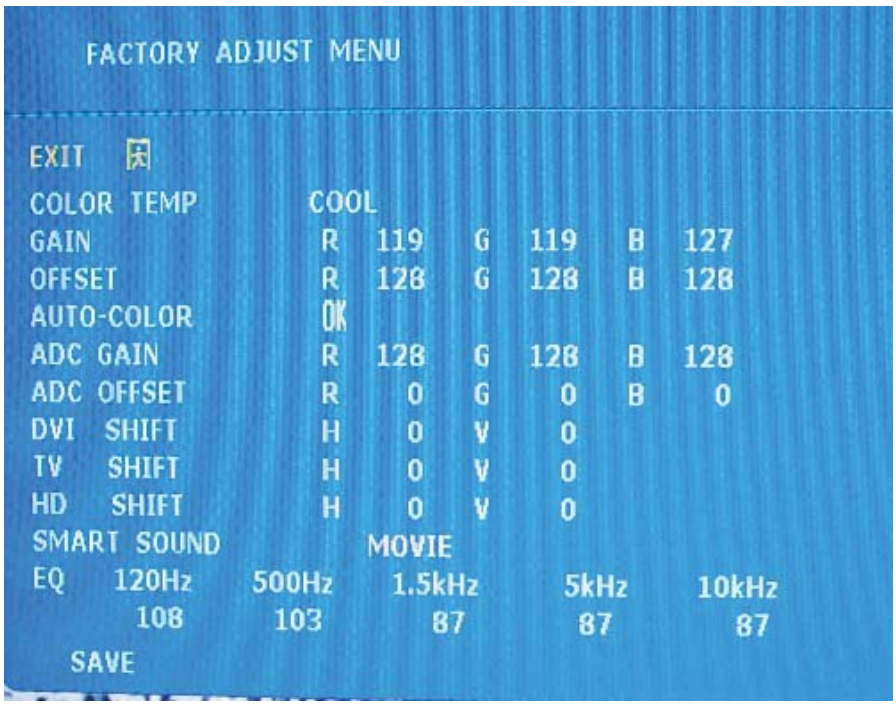
About error code,Please refer to the table below.

Error code	Event
0x01	Audio decoder Error
0x02	IIC bus error
0x03	Tuner error
0x04	NVRAM Error
0x05	Scaler Chip error

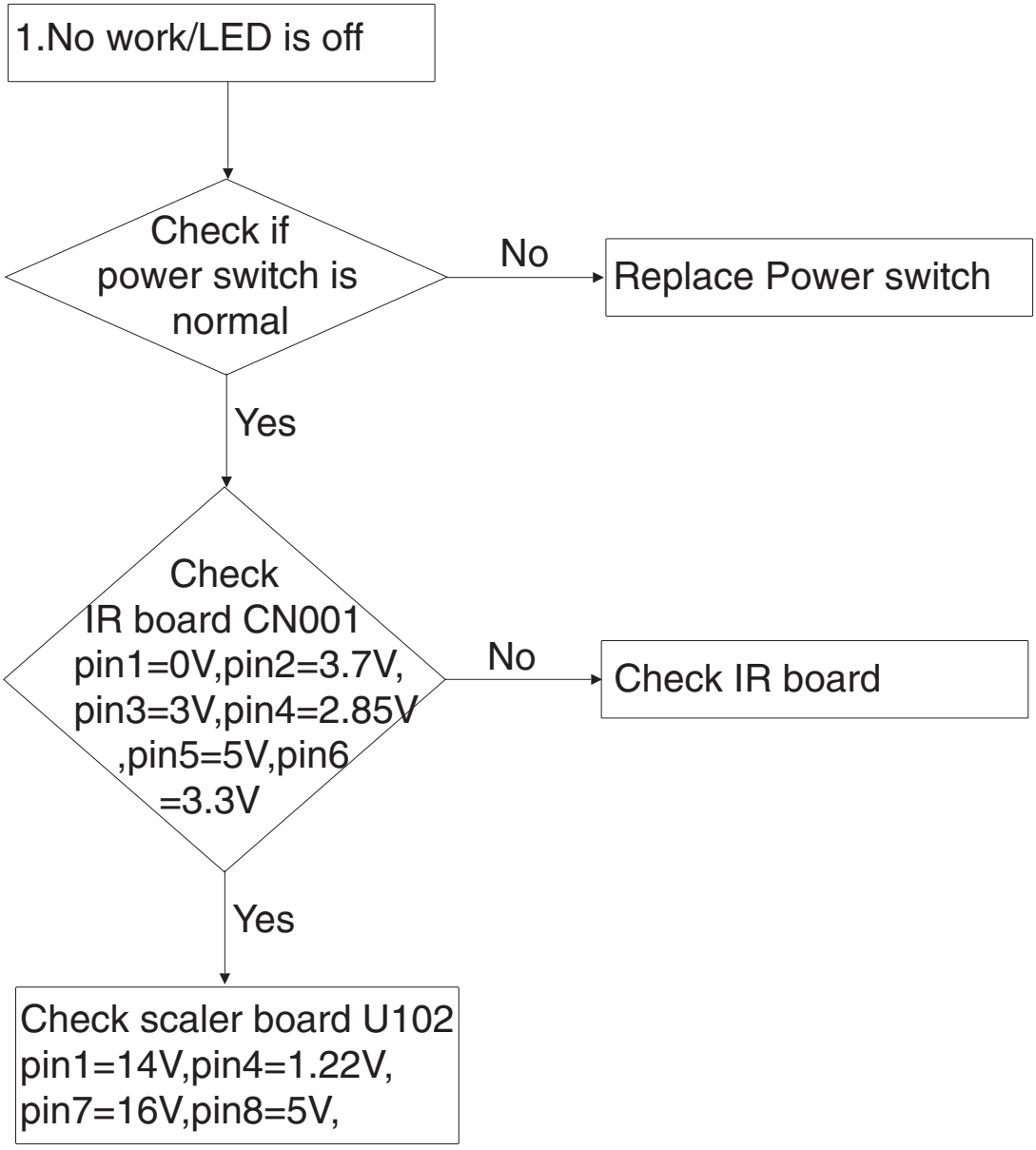
5.2 Factory Mode

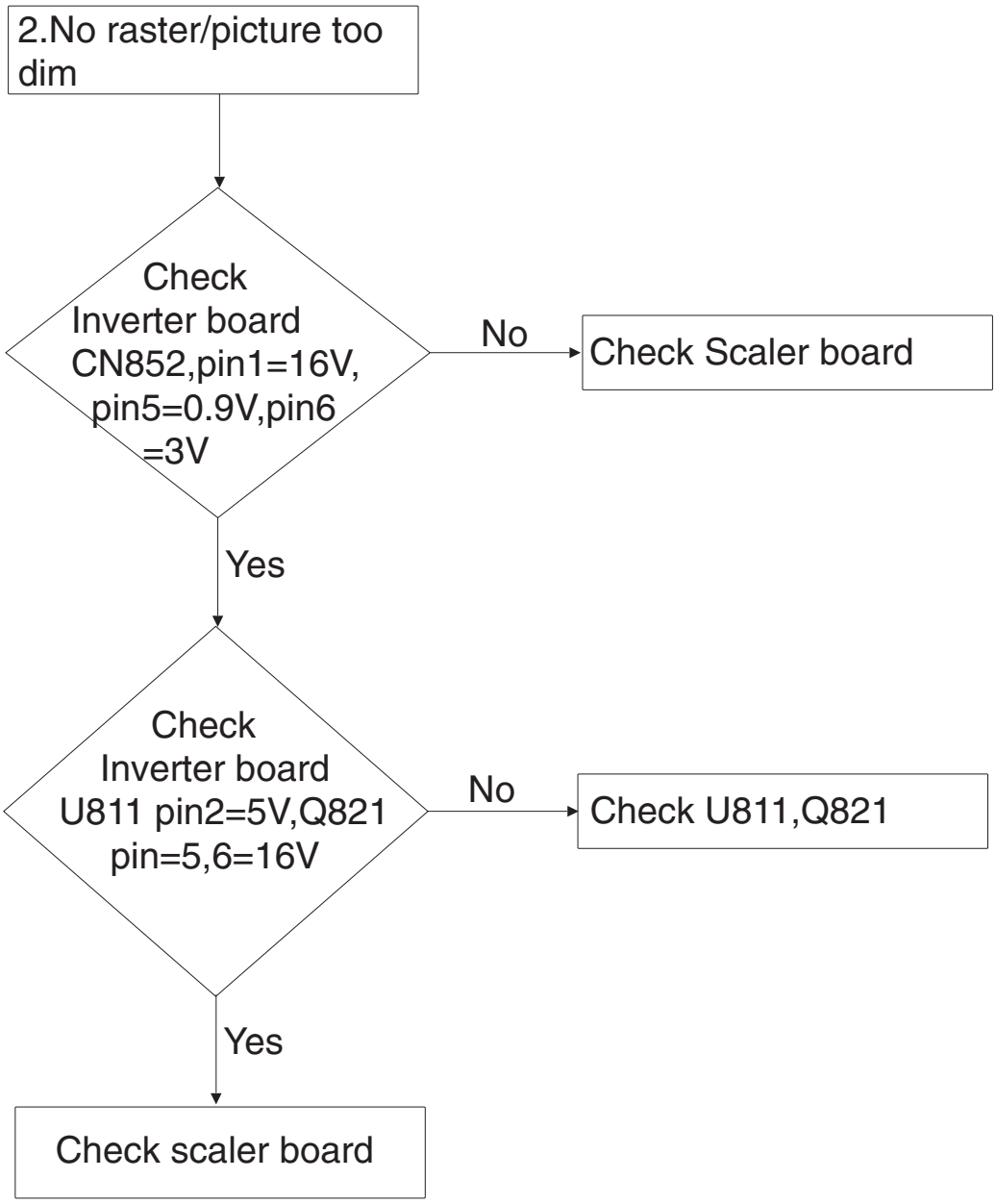
Function	Description
Factory Mode	1. To hold "Volume + and Volume - " buttons, then Power on while there is video signal in. Monitor will enter factory mode automatically once power is off. 2. Press remote control code "062596", then press menu key.

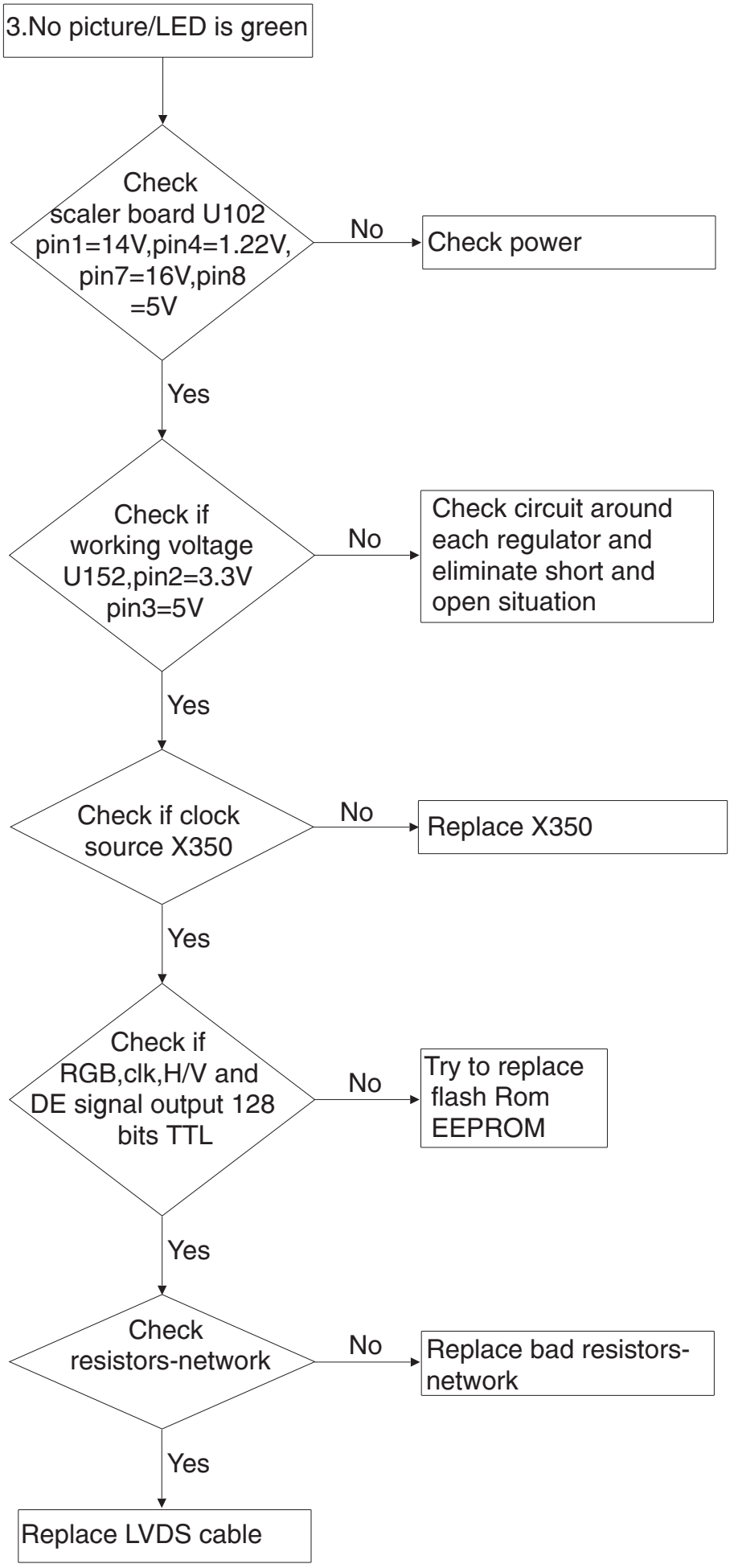
Factory Mode indicator

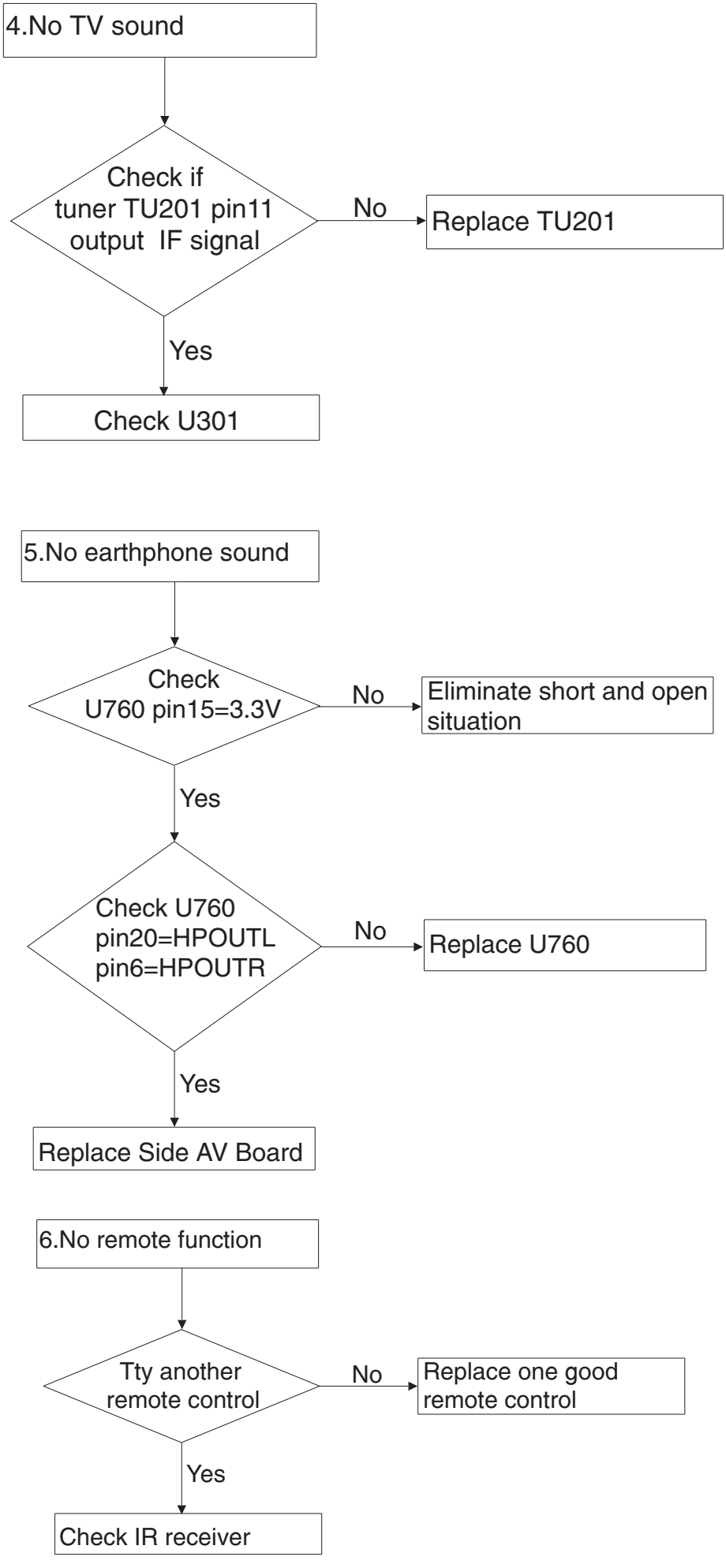

FACTORY ADJUST MENU
EXIT
COLOR TEMP COOL
GAIN R 119 G 119 B 127
OFFSET R 128 G 128 B 128
AUTO-COLOR OK
ADC GAIN R 128 G 128 B 128
ADC OFFSET R 0 G 0 B 0
DVI SHIFT H 0 V 0
TV SHIFT H 0 V 0
HD SHIFT H 0 V 0
SMART SOUND MOVIE
EQ 120Hz 500Hz 1.5kHz 5kHz 10kHz
108 103 87 87 87
SAVE

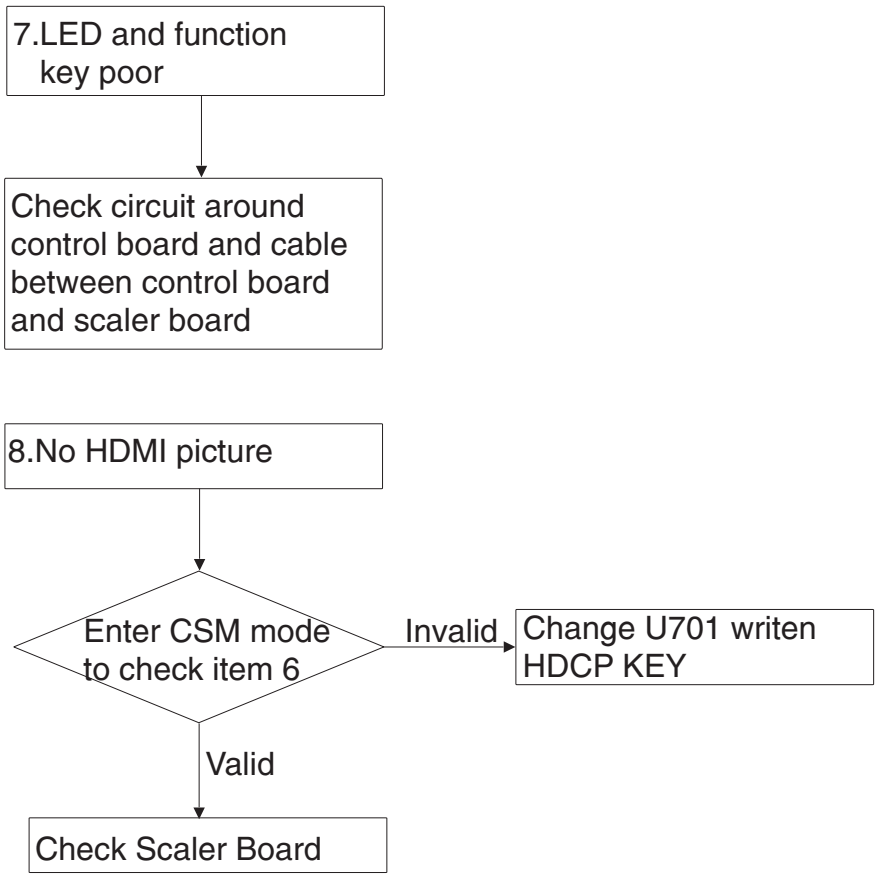
5.3 Repair Flow Chart




2.No raster/picture too dim
Check Inverter board CN852,pin1=16V, pin5=0.9V,pin6 =3V
No
Check Scaler board
Yes
Check Inverter board U811 pin2=5V,Q821 pin=5,6=16V
No
Check U811,Q821
Yes
Check scaler board


3.No picture/LED is green
Check scaler board U102 pin1=14V,pin4=1.22V, pin7=16V,pin8 =5V
No
Check power
Yes
Check if working voltage U152,pin2=3.3V pin3=5V
No
Check circuit around each regulator and eliminate short and open situation
Yes
Check if clock source X350
No
Replace X350
Yes
Check if RGB,clk,H/V and DE signal output 128 bits TTL
No
Try to replace flash Rom EEPROM
Yes
Check resistors-network
No
Replace bad resistors-network
Yes
Replace LVDS cable


4.No TV sound
Check if tuner TU201 pin11 output IF signal
No
Replace TU201
Yes
Check U301
5.No earthphone sound
Check U760 pin15=3.3V
No
Eliminate short and open situation
Yes
Check U760 pin20=HPOUTL pin6=HPOUTR
No
Replace U760
Yes
Replace Side AV Board
6.No remote function
Tty another remote control
No
Replace one good remote control
Yes
Check IR receiver

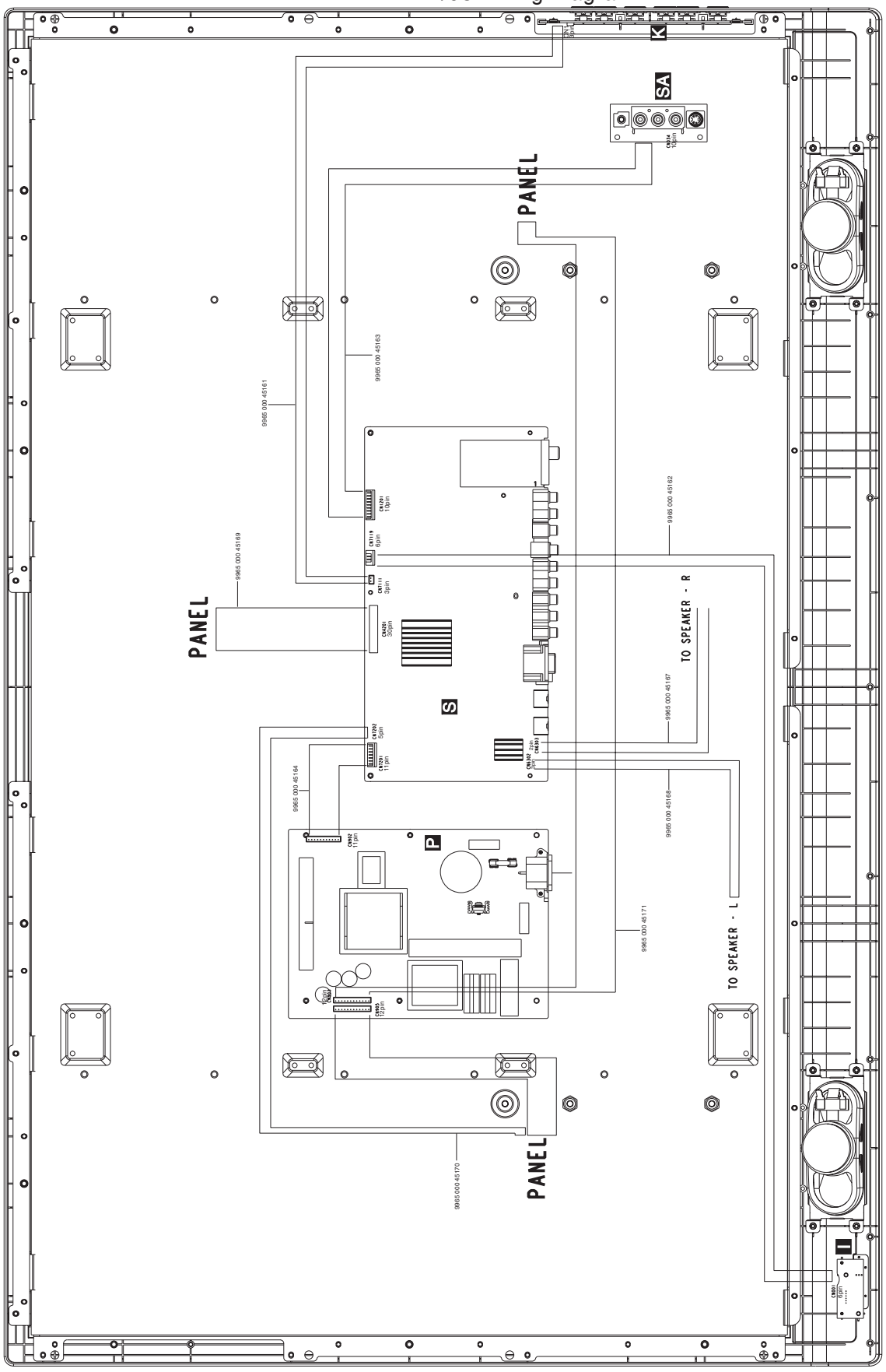

7.LED and function key poor
Check circuit around control board and cable between control board and scaler board
8.No HDMI picture
Enter CSM mode to check item 6
Invalid
Change U701 writen HDCP KEY
Valid
Check Scaler Board

6. Block Diagram

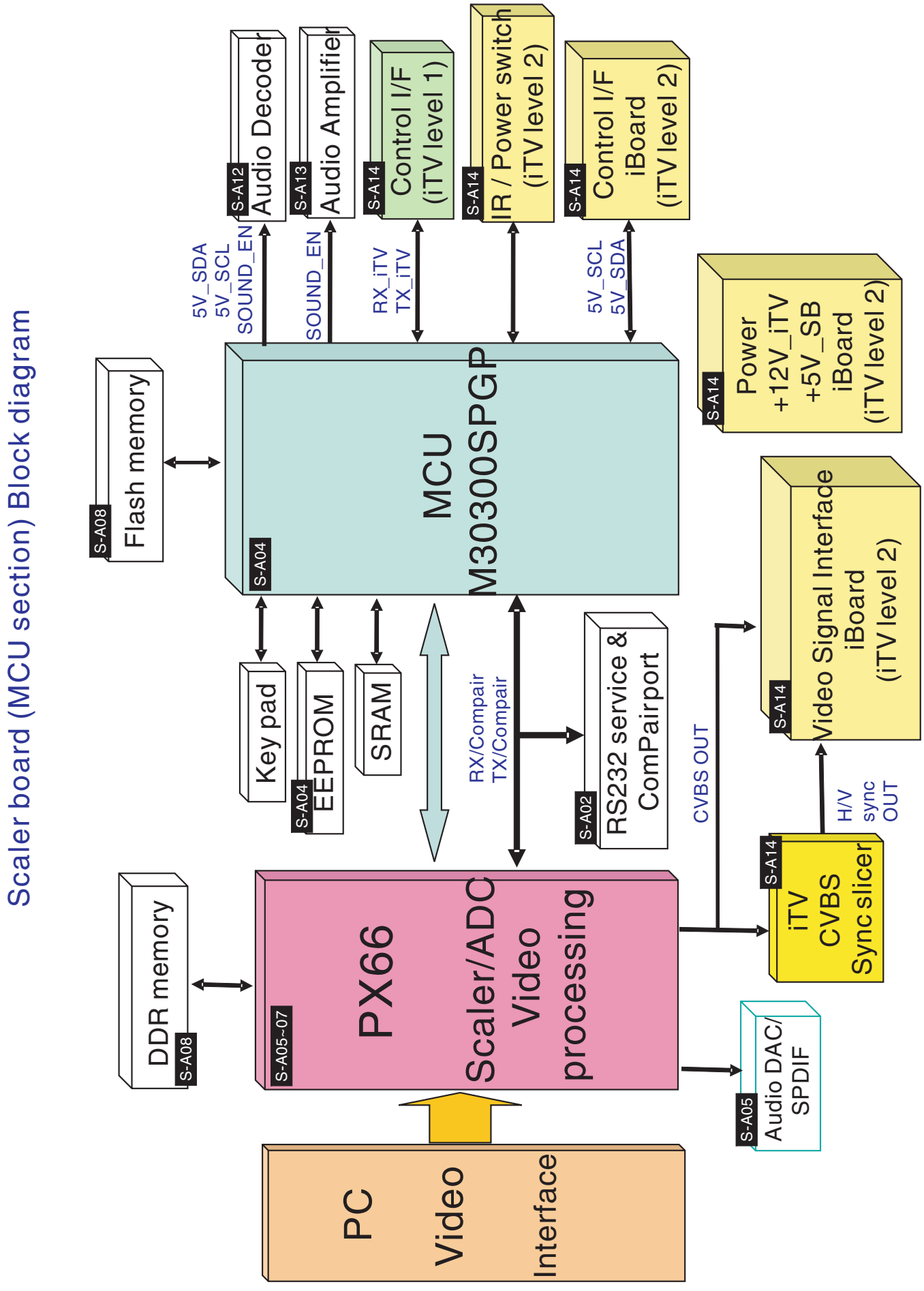
Index of this chapter:
6.1 Wiring Diagram
6.2 Block Diagram

6.1 Wiring Diagram

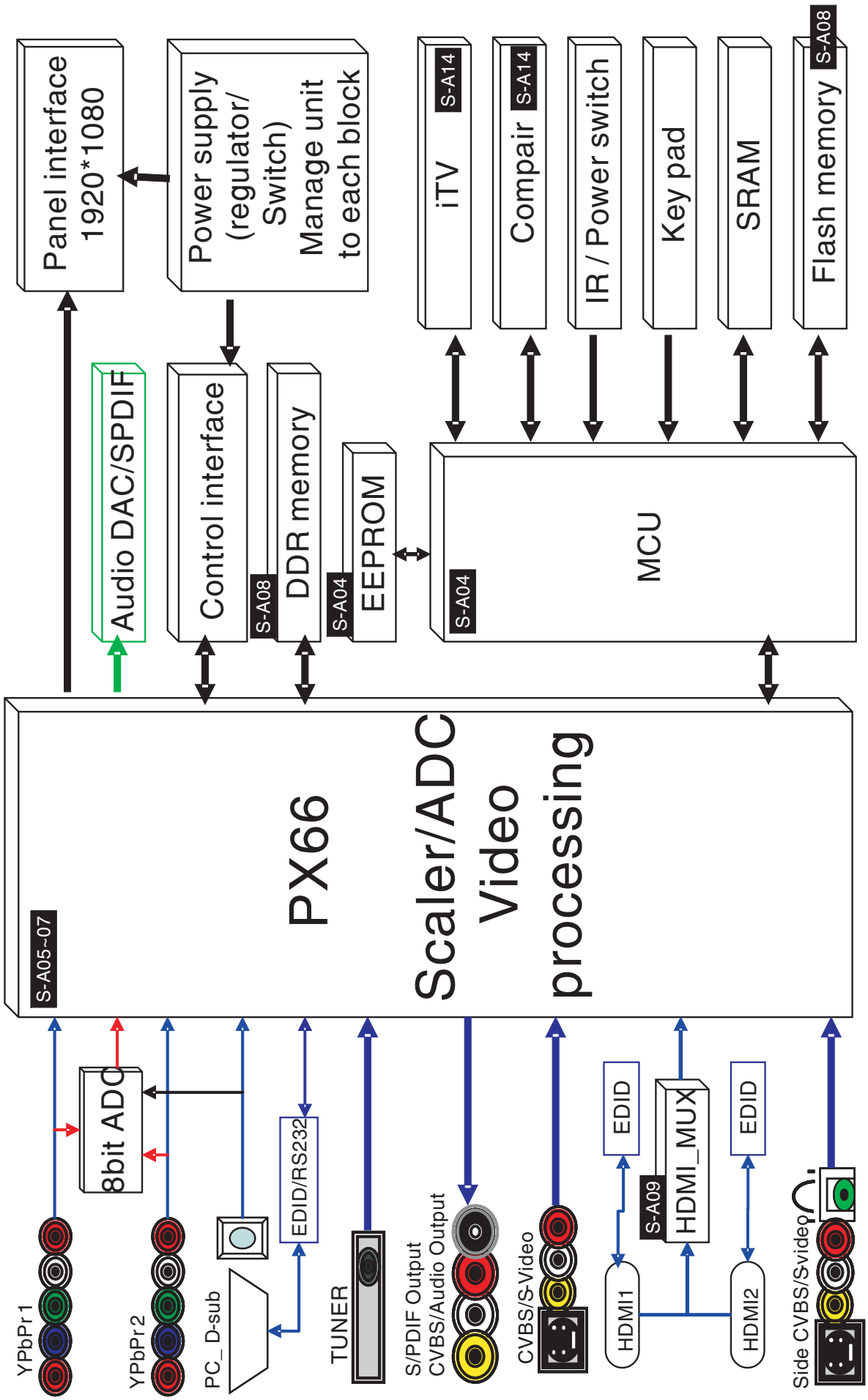
47PFL7422/93 Wiring Diagram



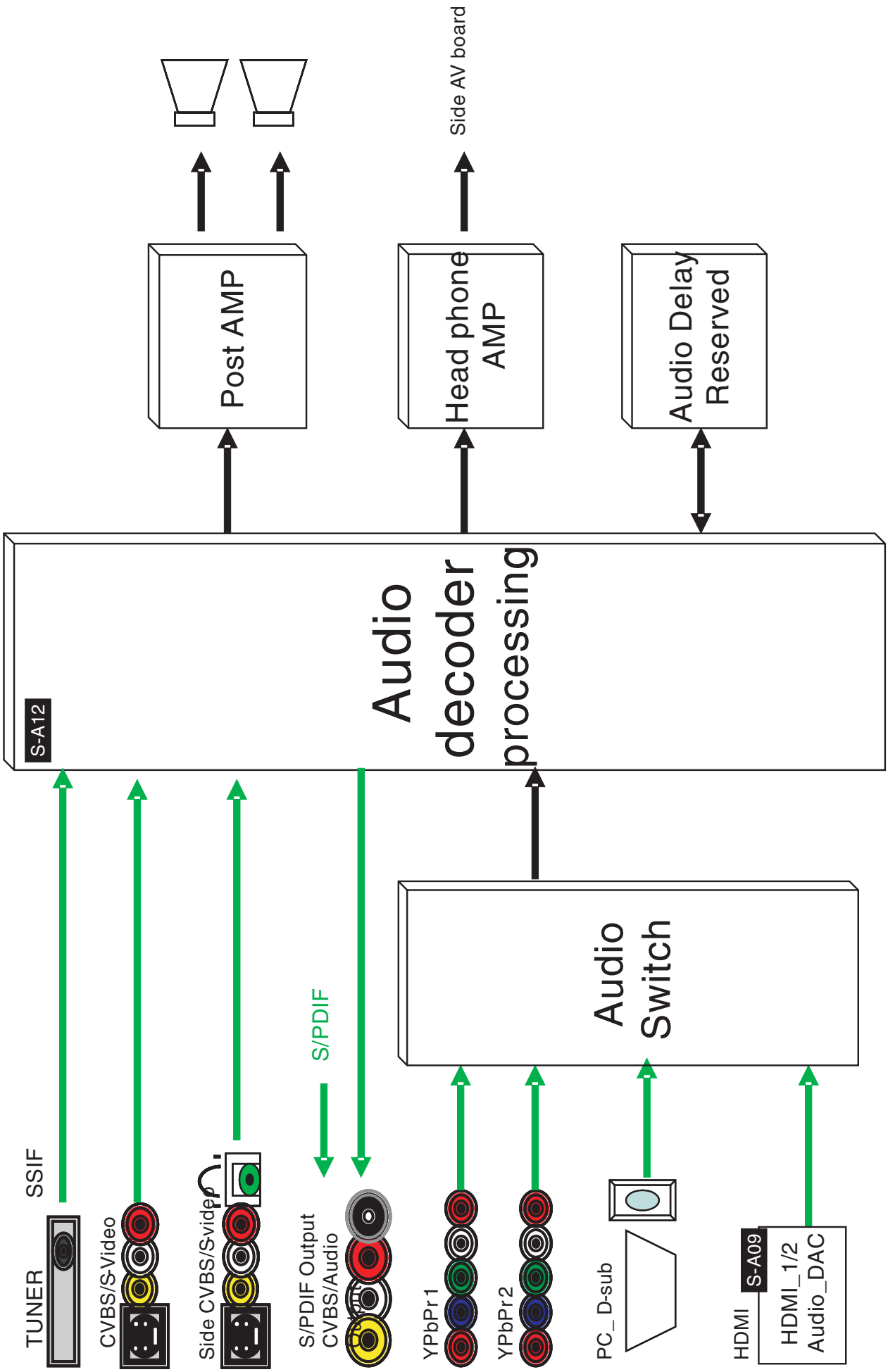
6.2 Block Diagram



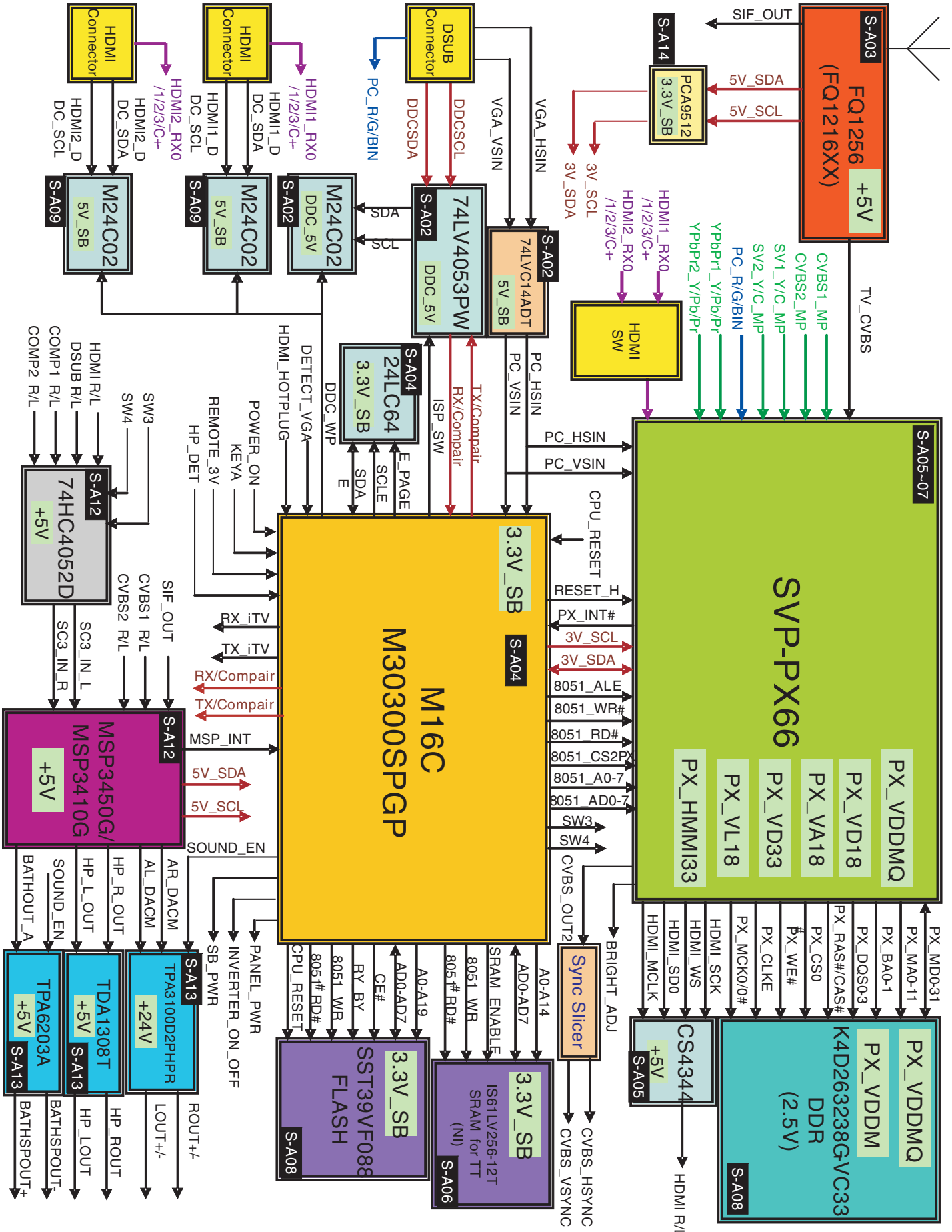
Scaler board (Video section) Block diagram



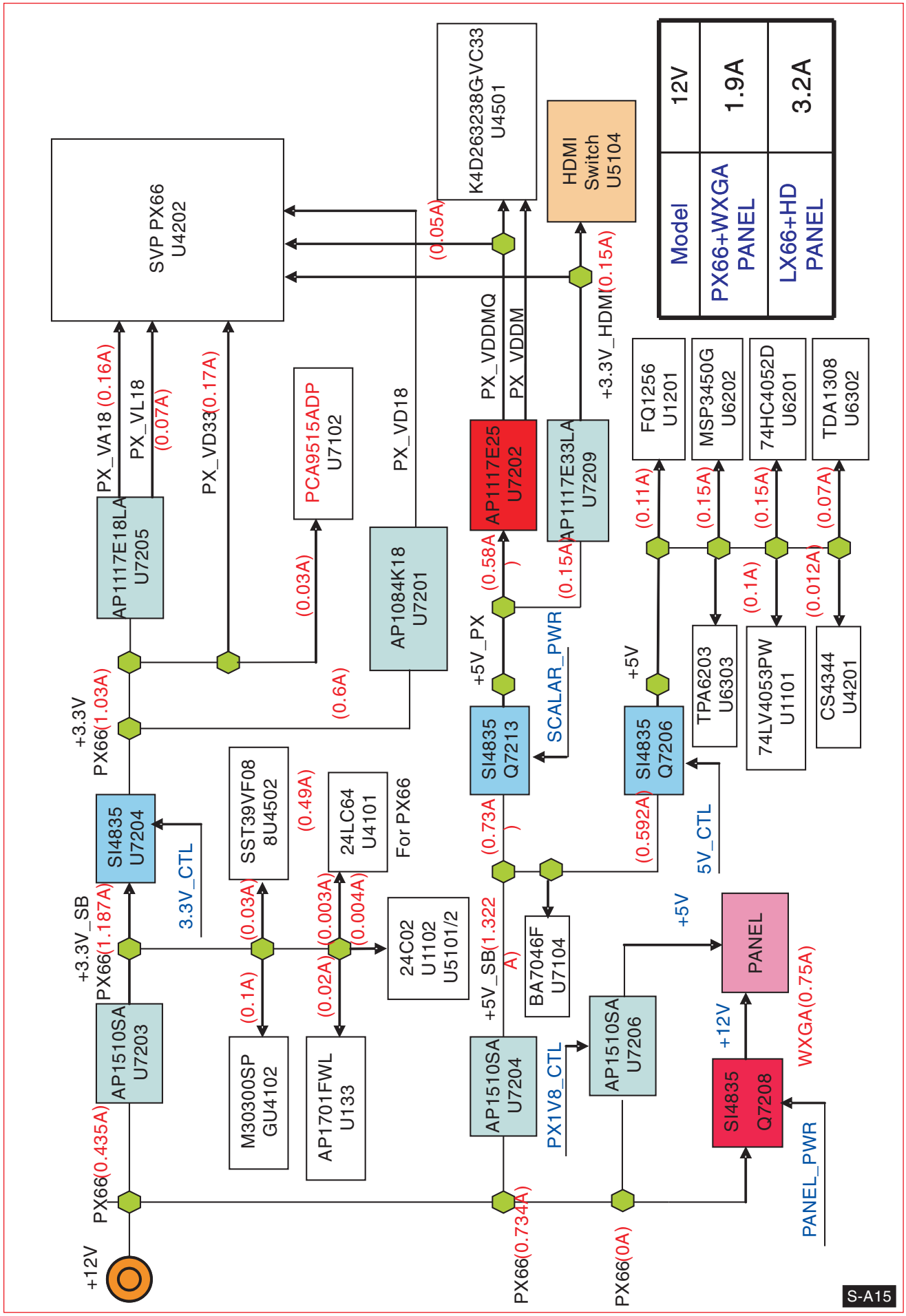
Scaler board (Audio section) Block diagram

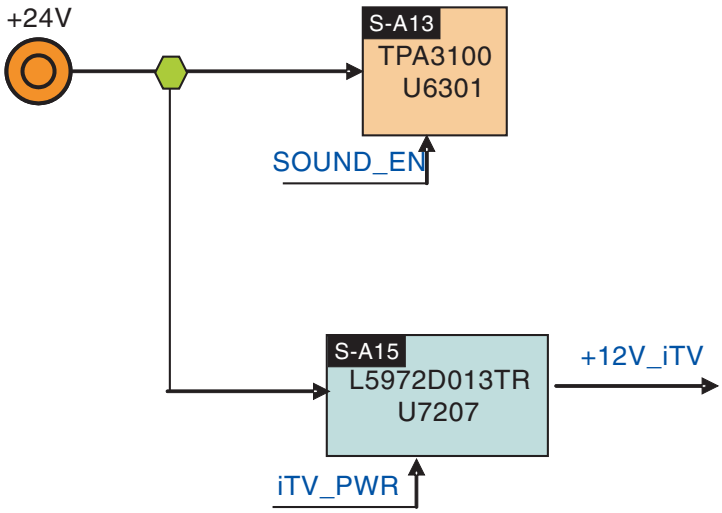


Scaler board Block diagram



Power Management




+24V
S-A13
TPA3100
U6301
SOUND_EN
S-A15
L5972D013TR
U7207
+12V_iTV
iTV_PWR

Scaler Board Schematic Diagram - Contents

S-A01

CONTENTS

SCHEMATIC Name	SHEET
_Su	1
02. Tuner & Input	2
03. CPU	3
04.SVP_LX66-1	4
05.SVP_LX66-2	5
06.SVP_LX66-3	6
07.DDRRAM & Flash	7
08.HDMI	8
09.MST_ADC	9
10.Sound Delay	10
11.AUDIO DECODER	11
12.Audio_AMP	12
13.iTV & Compair & I2C	13
14.Power	14

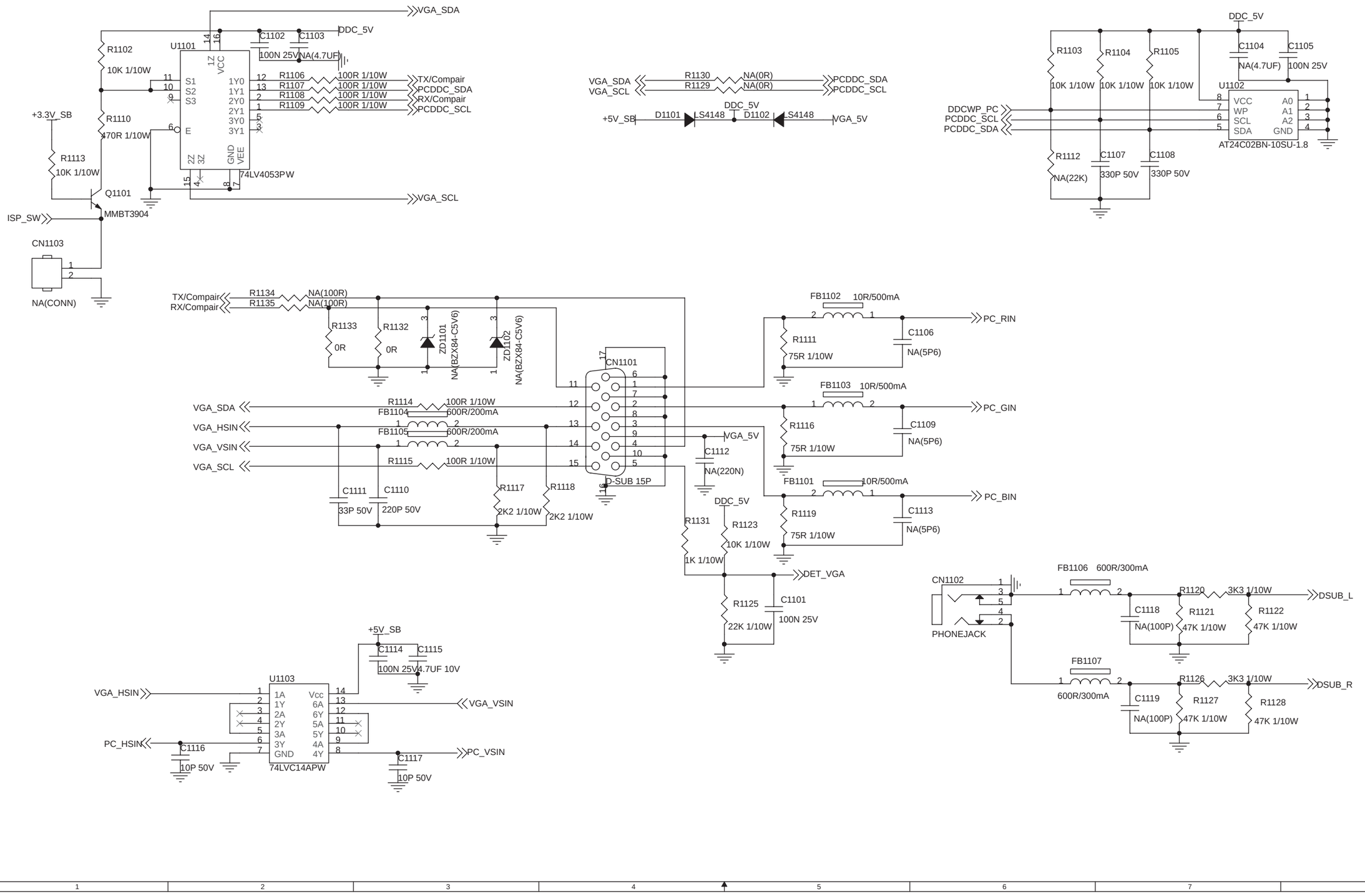
REVISION HISTORY

Date	Author	Ver	Comments

Approval	Position	Signature	Date

Scaler Board Schematic Diagram - D-SUB

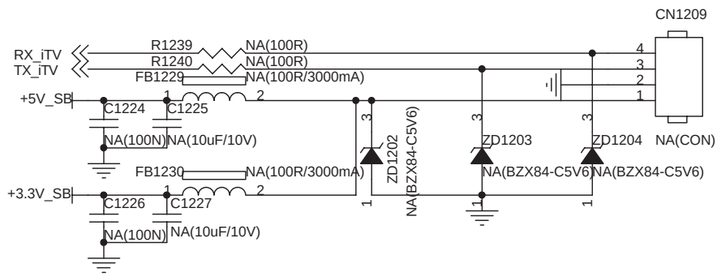
S-A02

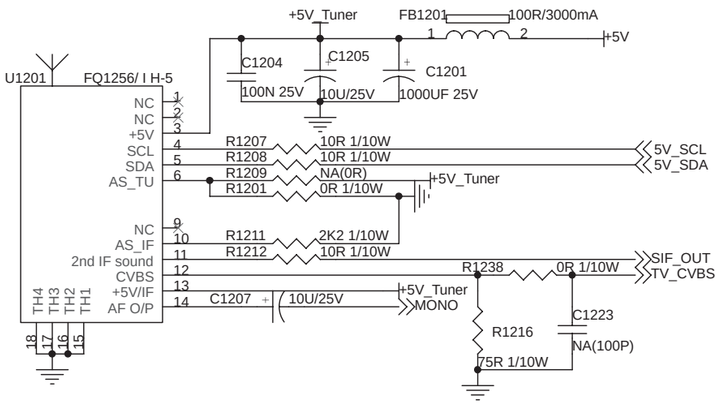


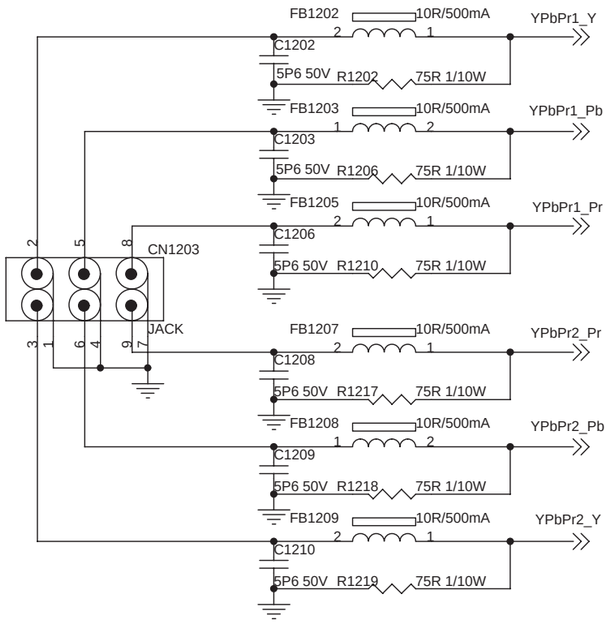
CN1101 C4
CN1102 D6
CN1103 B1
C1101 D5
C1102 A2
C1103 A2
C1104 A7
C1105 A7
C1106 C5
C1107 B6
C1108 B7
C1109 C5
C1110 C3
C1111 C2
C1112 C4
C1113 C5
C1114 D3
C1115 D3
C1116 E2
C1117 E3
C1118 D7
C1119 D7
D1101 A4
D1102 A5
FB1101 C5
FB1102 B5
FB1103 C5
FB1104 C3
FB1105 C3
FB1106 D6
FB1107 D6
Q1101 B1
R1102 A1
R1103 A6
R1104 A6
R1105 A7
R1106 A2
R1107 A2
R1108 A2
R1109 A2
R1110 A1
R1111 C5
R1112 B6
R1113 B1
R1114 C3
R1115 C3
R1116 C5
R1117 C3
R1118 C3
R1119 C5
R1120 D7
R1121 D7
R1122 D7
R1123 D4
R1125 D4
R1126 D7
R1127 D7
R1128 D7
R1129 A4
R1130 A4
R1131 D4
R1132 C3
R1133 C2
R1134 B2
R1135 B2
U1101 A2
U1102 A7
U1103 D2
ZD1101 C3
ZD1102 C3

Scaler Board Schematic Diagram - Tuner & Input

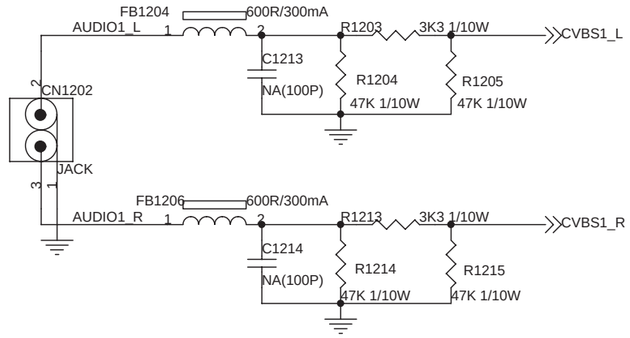
S-A03

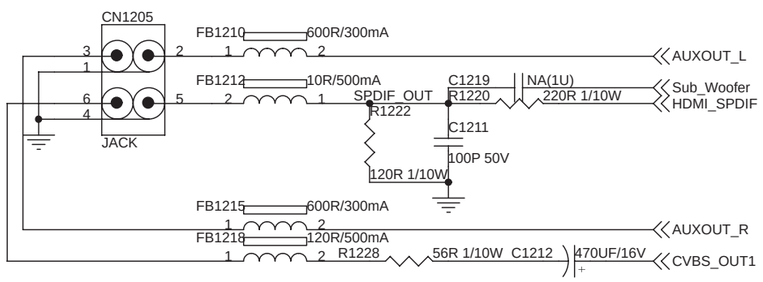


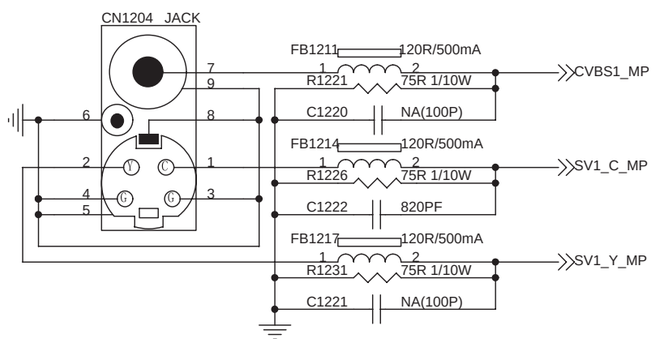


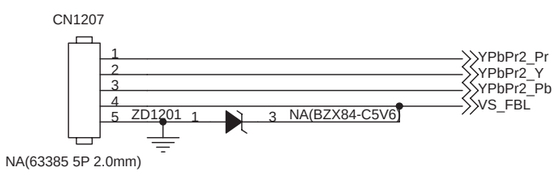


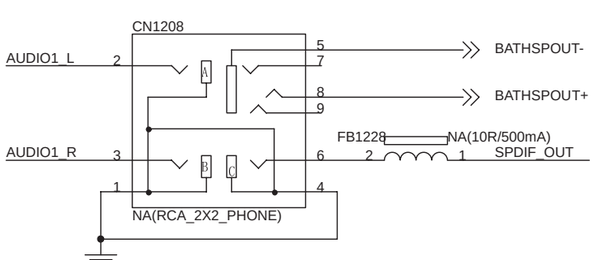
CN1201	D6	CN1202	B1
CN1203	A6	CN1204	C1
CN1205	B3	CN1206	D6
CN1207	D3	CN1208	D1
CN1209	A3	C1201	A4
C1202	A7	C1203	A7
C1204	A4	C1205	A4
C1206	A7	C1207	B4
C1208	B7	C1209	B7
C1210	B7	C1211	C5
C1212	C5	C1213	B2
C1214	C2	C1215	C7
C1216	C7	C1217	D7
C1218	E7	C1219	C5
C1220	D2	C1221	D2
C1222	D2	C1223	B5
C1224	A1	C1225	A1
C1226	B1	C1227	B1
C1228	E4	C1229	E4
C1230	E4	C1231	E5
C1232	E5	C1233	E5
C1234	E5	C1235	E5
FB1201	A5	FB1202	A7
FB1203	A7	FB1204	B1
FB1205	A7	FB1206	C1
FB1207	B7	FB1208	B7
FB1209	B7	FB1210	B4
FB1211	C2	FB1212	C4
FB1213	C6	FB1214	D2
FB1215	C4	FB1216	C6
FB1217	D2	FB1218	C4
FB1219	D6	FB1220	D3
FB1221	D3	FB1222	D6
FB1223	E3	FB1224	E3
FB1225	E3	FB1226	E3
FB1227	E3	FB1228	E2
FB1229	A1	FB1230	A1
FB1231	D3	R1201	A4
R1202	A7	R1203	B2
R1204	B2	R1205	B2
R1206	A7	R1207	A4
R1208	A4	R1209	A4
R1210	A7	R1211	A4
R1212	A4	R1213	C2
R1214	C2	R1215	C2
R1216	B5	R1217	B7
R1218	B7	R1219	C7
R1220	C5	R1221	C2
R1222	C4	R1223	C7
R1224	C7	R1225	C7
R1226	D2	R1227	C7
R1228	C4	R1229	C7
R1230	C7	R1231	D2
R1232	D7	R1233	D7
R1234	D7	R1235	D7
R1236	D7	R1237	D7
R1238	B5	R1239	A1
R1240	A1	U1201	A3
ZD1201	D4	ZD1202	A2
ZD1203	A2	ZD1204	A3

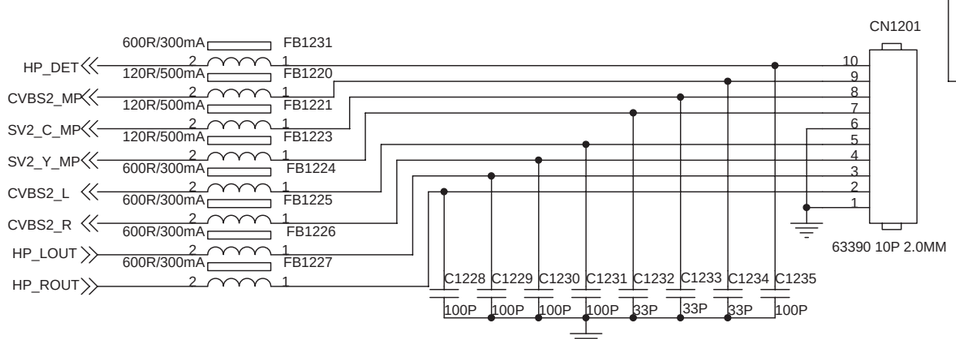












Scaler Board Schematic Diagram - CPU

S-A04

M30300SAGP#U5C

U4102

R4147 NA(2K7)
R4102 NA(4K7)
R4103 4K7
R4104 NA(4K7)
R4105 NA(2K7)
+3.3V_SB
3.3V_CTL
5V_CTL
PX1V8_CTL
INVERTER_ON_OFF

P1_3 75
P1_4 74
P1_5/INT3 73
P1_6/INT4 72
P1_7/INT5 71
P2_0/A0/D0 70 uP_A0
P2_1/A1/D1 69 uP_A1
P2_2/A2/D2 68 uP_A2
P2_3/A3/D3 67 uP_A3
P2_4/A4/D4 66 uP_A4
P2_5/A5/D5 65 uP_A5
P2_6/A6/D6 64 uP_A6
P2_7/A7/D7 63 uP_A7
Vss 62
P3_0/A8 61 uP_A8
Vcc2 60 +3.3V_SB
P3_1/A9 59 uP_A9
P3_2/A10 58 uP_A10
P3_3/A11 57 uP_A11
P3_4/A12 56 uP_A12
P3_5/A13 55 uP_A13
P3_6/A14 54 uP_A14
P3_7/A15 53 uP_A15
P4_0/A16 52 uP_A16
P4_1/A17 51 uP_A17

DET_VGA — P1_2 76
HDMI_SEL — R4107 NA(4K7) — P1_1 77
+3.3V_SB — R4106 NA(4K7)
SCDT — P1_0 78
uP_AD7 — P0_7/AN0_7 79
uP_AD6 — P0_6/AN0_6 80
uP_AD5 — P0_5/AN0_5 81
uP_AD4 — P0_4/AN0_4 82
uP_AD3 — P0_3/AN0_3 83
uP_AD2 — P0_2/AN0_2 84
uP_AD1 — P0_1/AN0_1 85
uP_AD0 — P0_0/AN0_0 86
+3.3V_SB — R4112 4K7
LightSensor — P10_7/AN7 87 — R4113 NA(4K7)
OD_Select — P10_6/AN6 88 — R4114 NA(4K7)
DATALOSS_DET — P10_5/AN5 89 — R4116 NA(4K7)
ISP_SW — P10_4/AN4 90 — R4118 4K7
PANEL_PWR — P10_3/AN3 91
POWER_ON — P10_2/AN2 92
KEYA — P10_1/AN1 93
+3.3V_SB — R4124 NA(4K7) — Avss 94
ADC_PWR — P10_0/AN0 95
Vref 96
+3.3V_SB — Avcc 97
LED_R — P9_7/ADTRG 98
LED_G — P9_6 99
E_PAGE — P9_5 100

P9_4/DA1 1
P9_3/DA0 2
P9_2/TB2in 3
P9_1/TB1in 4
P9_0/TB0in 5
BYTE 6
CNVss 7
P8_7/Xcin 8
P8_6/Xcout 9
Reset 10
Xout 11
Vss 12
Xin 13
Vcc1 14
P8_5/NIM 15
P8_4/INT2 16
P8_3/INT1 17
P8_2/INT0 18
P8_1/TA4in 19
P8_0/TA4out 20
P7_7/TA3in 21
P7_6/TA3out 22
P7_5/TA2in 23
P7_4/TA2out 24
P7_3/TA1in 25

R4132 NA(4K7)
R4134 NA(4K7)
+3.3V_SB — R4136 NA(4K7)
R4138 NA(4K7)
R4140 4K7
SOUND_MUTE
MSP_INT
SW3
PC_HSIN
SW4

R4142 4K7 — +3.3V_SB
CNVSS

X4101 — 10MHZ
+3.3V_SB
C4111 33P 50V
C4112 33P 50V
CPU_RESET

R4157 NA(0R05)
+3.3V_SB — R4143 NA(4K7) E_SDA
R4144 NA(4K7) E_SCL
R4158 NA(0R05)

P4_2/A18 50 — uP_A18
P4_3/A19 49 — R4108 NA(0R) — uP_A19
P4_4/CS0 48 — PS
P4_5/CS1 47 — R4109 NA(0R)
P4_6/CS2 46 — 8051_CS2PX
P4_7/CS3 45 — SRAM_ENABLE
P5_0/WR 44 — 8051_WR#
P5_1/BHE 43 — RY_BY
P5_2/RD 42 — 8051_RD#
P5_3/BCLK 41
P5_4/HLDA 40
P5_5/HOLD 39 — R4111 4K7 — +3.3V_SB — P5_5
P5_6/ALE 38 — 8051_ALE
P5_7/RDY 37 — R4115 4K7 — +3.3V_SB
P6_0/CTS0/RTS0 36 — R4117 4K7 — SOUND_EN
P6_1/CLK0 35 — R4119 4K7 — RESET_H
P6_2/SCL0 34 — R4120 4K7 — RX_iTV
P6_3/SDA0 33 — R4121 4K7 — TX_iTV
P6_4/CTS1/RTS1 32 — R4122 4K7 — P6_4
P6_5/CLK1 31 — R4123 4K7 — P6_5
P6_6/RXD1 30 — R4125 4K7 — RX/Compair
P6_7/TXD1 29 — R4126 4K7 — TX/Compair
P7_0/SDA2 28 — 3V_SDA
P7_1/SCL2 27 — 3V_SCL
P7_2/TA1out 26 — R4127 4K7 — DDC_WP

R4145 4K7
R4128 NA(4K7)
R4129 NA(4K7)
R4130 4K7
R4131 NA(4K7)
R4133 NA(4K7) — +3.3V_SB
R4135 4K7
R4137 4K7
R4139 4K7
R4141 4K7
R4146 4K7
R4154 100R — HDMI1_HPD_3V
PANEL_PWM
HP_DET
ADC_RESET
R4155 100R — HDMI2_HPD_3V
PWM_SEL
STANDBY
REMOTE_3V
PX_INT#
PC_VSIN
R4156 100R — FAULT

+3.3V_SB — C4102 4.7UF 10V — C4103 100N 25V
R4153 4K7
E_PAGE
3V_SCL — R4110 0R — E_SCL
3V_SDA — R4101 0R — E_SDA
U4101 24LC64ISNG (VCC WP SCL SDA A0 A1 A2 VSS)

U4103 AP1701FWL (RESET VCC GND)
+3.3V_SB — C4101 100N 25V
CPU_RESET

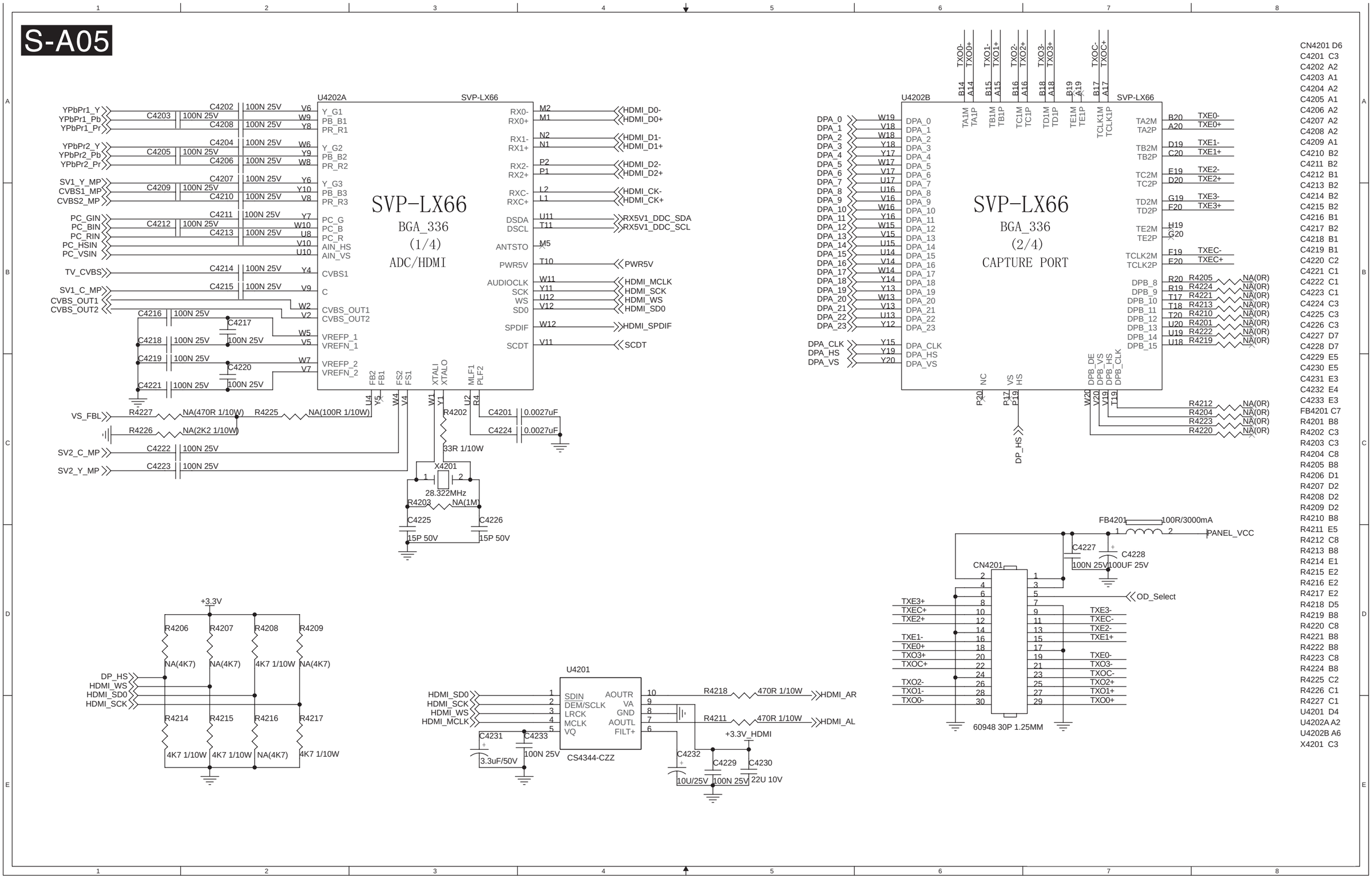
CN4101
1 — E_PAGE
2
NA

+3.3V_SB
C4107 100UF 25V
C4108 4.7UF 10V
C4104 100N 25V
C4105 100N 25V
C4106 100N 25V

CN4101 C7
C4101 B7
C4102 A7
C4103 A7
C4104 D7
C4105 D7
C4106 D8
C4107 D7
C4108 D7
C4111 E3
C4112 E3
R4101 A7
R4102 A2
R4103 A2
R4104 A2
R4105 A2
R4106 B1
R4107 B1
R4108 B5
R4109 B5
R4110 A7
R4111 C5
R4112 C1
R4113 C1
R4114 C1
R4115 C5
R4116 C1
R4117 C5
R4118 C1
R4119 C5
R4120 C5
R4121 C5
R4122 C5
R4123 C5
R4124 C1
R4125 D5
R4126 D5
R4127 D5
R4128 D6
R4129 D6
R4130 D6
R4131 D6
R4132 D1
R4133 D6
R4134 D1
R4135 D6
R4136 D1
R4137 D6
R4138 D1
R4139 E6
R4140 E1
R4141 E6
R4142 E3
R4143 E1
R4144 E1
R4145 D6
R4146 E6
R4147 A2
R4153 A7
R4154 E6
R4155 E6
R4156 E6
R4157 E2
R4158 E2
U4101 A8
U4102 A2
U4103 B7
X4101 E3

Scaler Board Schematic Diagram - SVP_LX66-1

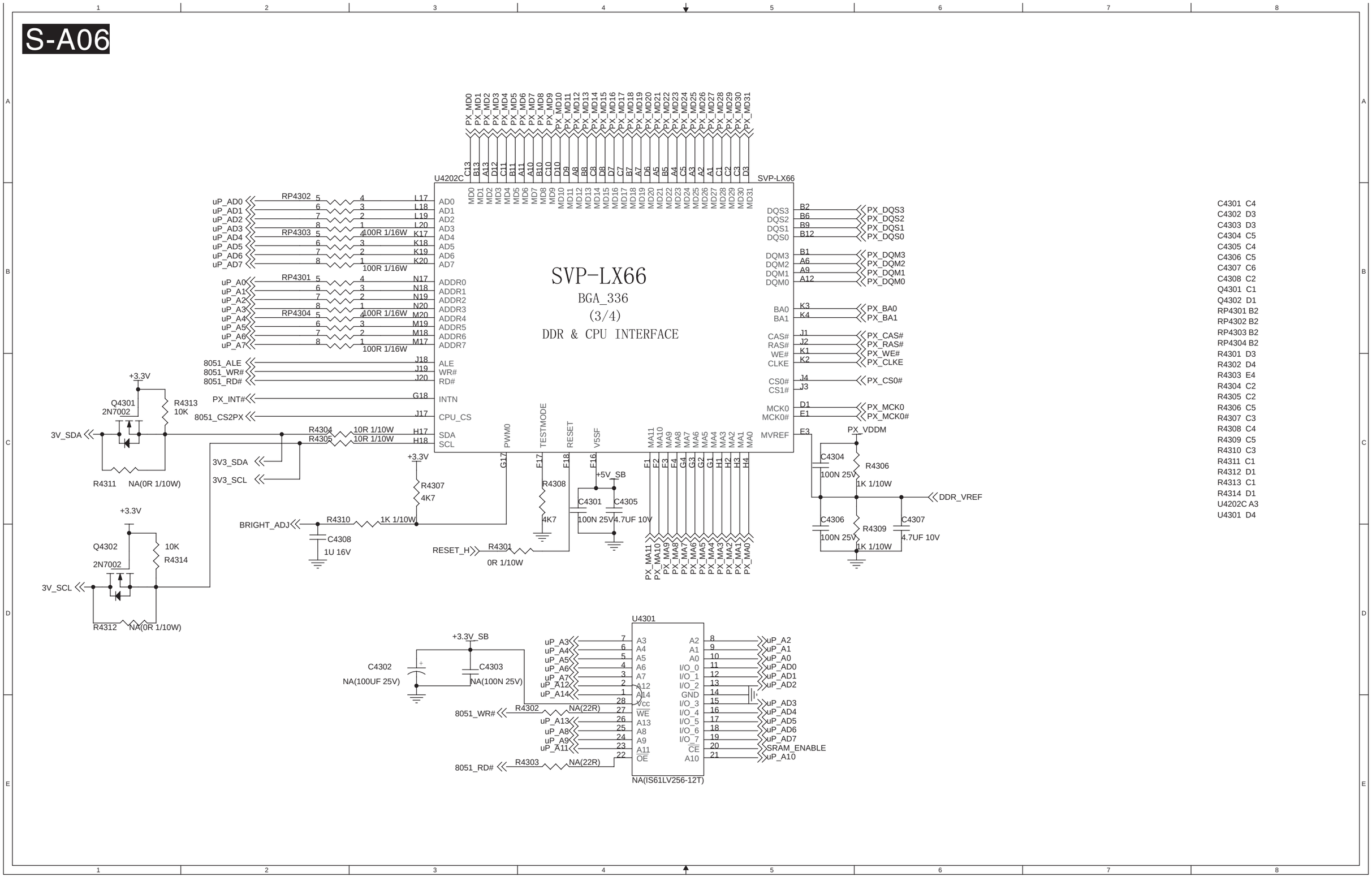
S-A05



CN4201 D6
C4201 C3
C4202 A2
C4203 A1
C4204 A2
C4205 A1
C4206 A2
C4207 A2
C4208 A2
C4209 A1
C4210 B2
C4211 B2
C4212 B1
C4213 B2
C4214 B2
C4215 B2
C4216 B1
C4217 B2
C4218 B1
C4219 B1
C4220 C2
C4221 C1
C4222 C1
C4223 C1
C4224 C3
C4225 C3
C4226 C3
C4227 D7
C4228 D7
C4229 E5
C4230 E5
C4231 E3
C4232 E4
C4233 E3
FB4201 C7
R4201 B8
R4202 C3
R4203 C3
R4204 C8
R4205 B8
R4206 D1
R4207 D2
R4208 D2
R4209 D2
R4210 B8
R4211 E5
R4212 C8
R4213 B8
R4214 E1
R4215 E2
R4216 E2
R4217 E2
R4218 D5
R4219 B8
R4220 C8
R4221 B8
R4222 B8
R4223 C8
R4224 B8
R4225 C2
R4226 C1
R4227 C1
U4201 D4
U4202A A2
U4202B A6
X4201 C3

Scaler Board Schematic Diagram - SVP_LX66-2

S-A06



Scaler Board Schematic Diagram - SVP_LX66-3

S-A07

SVP-LX66
BGA_336
(4/4)
POWER/GROUND

C4401 C2 C4402 A4
C4403 A5 C4404 A5
C4405 A5 C4406 A5
C4407 A6 C4408 A2
C4409 A2 C4410 A3
C4411 A3 C4412 A3
C4413 B2 C4414 B2
C4415 C2 C4416 C2
C4417 C2 C4418 B6
C4419 B7 C4420 B7
C4421 B6 C4422 B7
C4423 B7 C4424 B2
C4425 B2 C4426 B2
C4427 B2 C4428 D4
C4429 B2 C4430 C2
C4431 D4 C4432 B2
C4433 C2 C4434 C2
C4435 D2 C4436 C2
C4437 C2 C4438 D2
C4439 A1 C4440 A1
C4441 A1 C4442 A2
C4443 A2 C4444 A2
C4445 A2 C4446 A2
C4447 A3 C4448 D4
C4449 D4 C4450 D4
C4451 D5 C4452 D5
C4453 D5 C4454 D5
C4455 D4 C4456 D5
C4457 D5 C4458 D5
C4459 D5 C4460 C2
C4461 D2 C4462 D2
C4463 A6 FB4401 B1
FB4402 D3 FB4403 C1
FB4404 D1 FB4405 D3
FB4406 A7 FB4407 A4
FB4408 A6 L4401 B1
L4402 B1 L4403 C1
L4404 C1 L4405 C1
L4406 C1 R4401 B1
R4402 B1 U4202D A4

Scaler Board Schematic Diagram - DDRRAM & Flash

S-A08

4M x 32 DDR

FBGA 144

K4D263238G-VC36

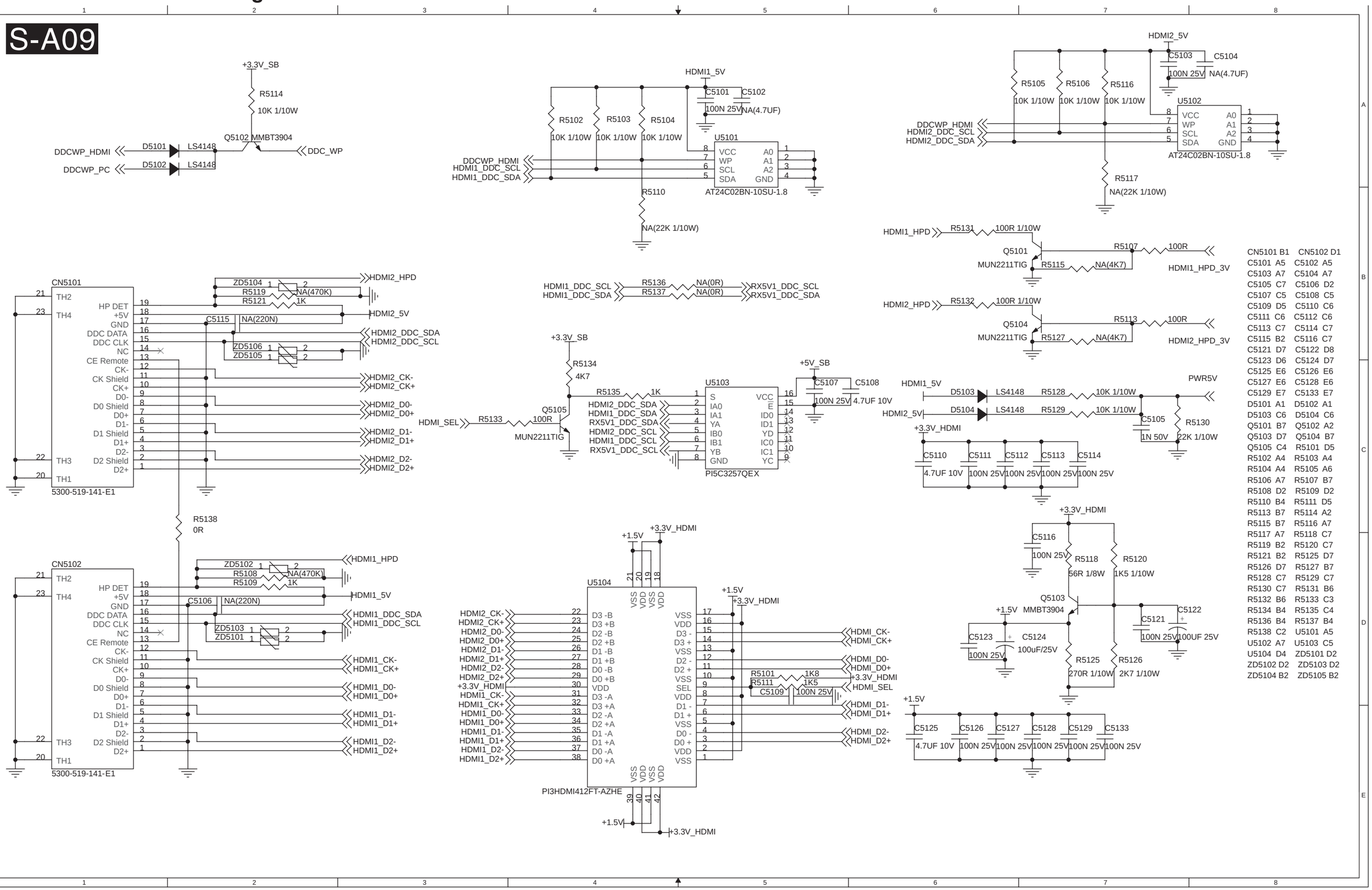
U4501

U4502 SST39VF088

C4501 B6
C4502 A7
C4503 B6
C4504 B6
C4505 B7
C4506 B7
C4507 B7
C4508 B7
C4509 B6
C4510 B6
C4511 B6
C4512 B7
C4513 B7
C4514 B7
C4515 B7
C4516 C5
C4517 D7
C4518 D7
RP4501 D5
RP4502 B1
RP4503 B5
RP4504 B1
RP4505 B5
RP4506 B1
RP4507 B5
RP4508 B1
RP4509 B5
RP4510 D5
RP4511 D5
RP4512 D7
RP4513 D7
RP4514 D5
R4501 D5
R4502 A7
R4503 A7
R4504 C1
R4505 C5
R4506 C1
R4507 C5
R4508 C5
R4509 C7
R4510 D5
R4511 D5
R4512 E5
R4513 E7
U4501 B2
U4502 D6

Scaler Board Schematic Diagram - HDMI

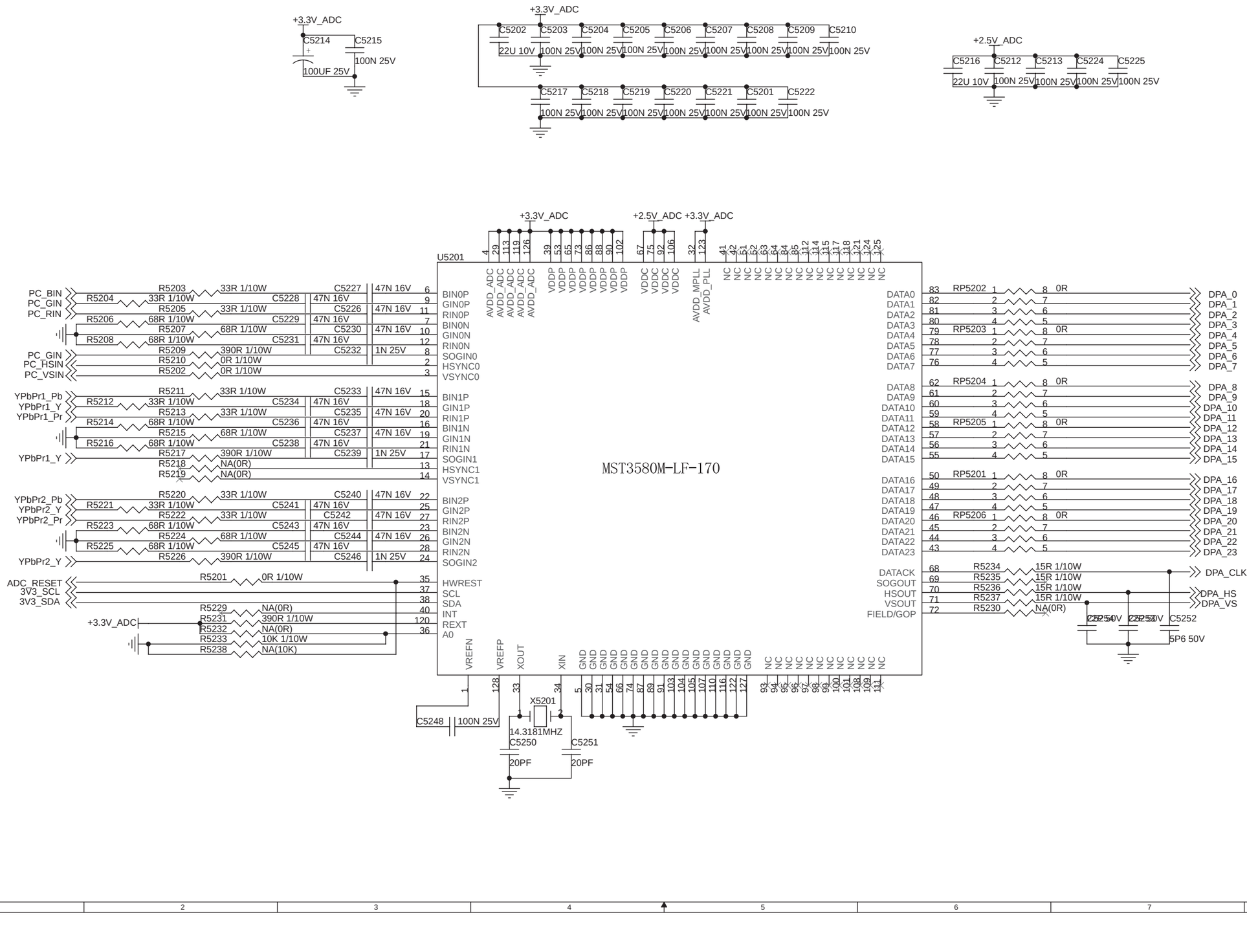
S-A09



CN5101	B1	CN5102	D1
C5101	A5	C5102	A5
C5103	A7	C5104	A7
C5105	C7	C5106	D2
C5107	C5	C5108	C5
C5109	D5	C5110	C6
C5111	C6	C5112	C6
C5113	C7	C5114	C7
C5115	B2	C5116	C7
C5121	D7	C5122	D8
C5123	D6	C5124	D7
C5125	E6	C5126	E6
C5127	E6	C5128	E6
C5129	E7	C5133	E7
D5101	A1	D5102	A1
D5103	C6	D5104	C6
Q5101	B7	Q5102	A2
Q5103	D7	Q5104	B7
Q5105	C4	R5101	D5
R5102	A4	R5103	A4
R5104	A4	R5105	A6
R5106	A7	R5107	B7
R5108	D2	R5109	D2
R5110	B4	R5111	D5
R5113	B7	R5114	A2
R5115	B7	R5116	A7
R5117	A7	R5118	C7
R5119	B2	R5120	C7
R5121	B2	R5125	D7
R5126	D7	R5127	B7
R5128	C7	R5129	C7
R5130	C7	R5131	B6
R5132	B6	R5133	C3
R5134	B4	R5135	C4
R5136	B4	R5137	B4
R5138	C2	U5101	A5
U5102	A7	U5103	C5
U5104	D4	ZD5101	D2
ZD5102	D2	ZD5103	D2
ZD5104	B2	ZD5105	B2

Scaler Board Schematic Diagram - MST_ADC

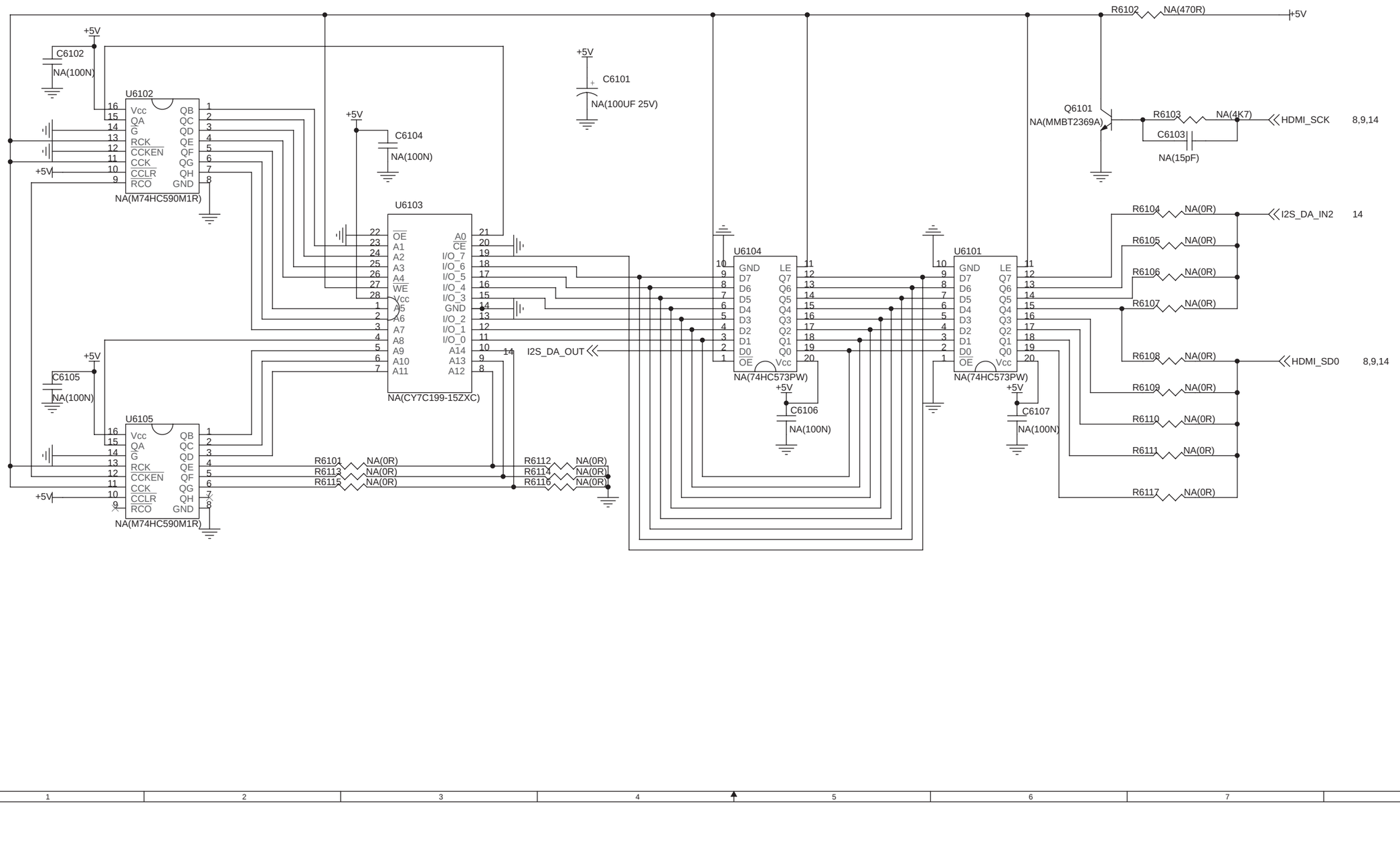
S-A10



C5201 A5 C5202 A4
C5203 A4 C5204 A4
C5205 A4 C5206 A4
C5207 A5 C5208 A5
C5209 A5 C5210 A5
C5212 A6 C5213 A6
C5214 A3 C5215 A3
C5216 A6 C5217 A4
C5218 A4 C5219 A4
C5220 A4 C5221 A5
C5222 A5 C5224 A7
C5225 A7 C5226 B3
C5227 B3 C5228 B3
C5229 B3 C5230 C3
C5231 C3 C5232 C3
C5233 C3 C5234 C3
C5235 C3 C5236 C3
C5237 C3 C5238 C3
C5239 C3 C5240 C3
C5241 C3 C5242 C3
C5243 C3 C5244 D3
C5245 D3 C5246 D3
C5248 D3 C5250 E4
C5251 E4 C5252 D7
C5253 D7 C5254 D7
RP5201 C6 RP5202 B6
RP5203 C6 RP5204 C6
RP5205 C6 RP5206 C6
R5201 D2 R5202 C2
R5203 B2 R5204 B2
R5205 B2 R5206 B2
R5207 C2 R5208 C2
R5209 C2 R5210 C2
R5211 C2 R5212 C2
R5213 C2 R5214 C2
R5215 C2 R5216 C2
R5217 C2 R5218 C2
R5219 C2 R5220 C2
R5221 C2 R5222 C2
R5223 C2 R5224 D2
R5225 D2 R5226 D2
R5229 D2 R5230 D6
R5231 D2 R5232 D2
R5233 D2 R5234 D6
R5235 D6 R5236 D6
R5237 D6 R5238 D2
U5201 B3 X5201 D4

Scaler Board Schematic Diagram - Sound Delay

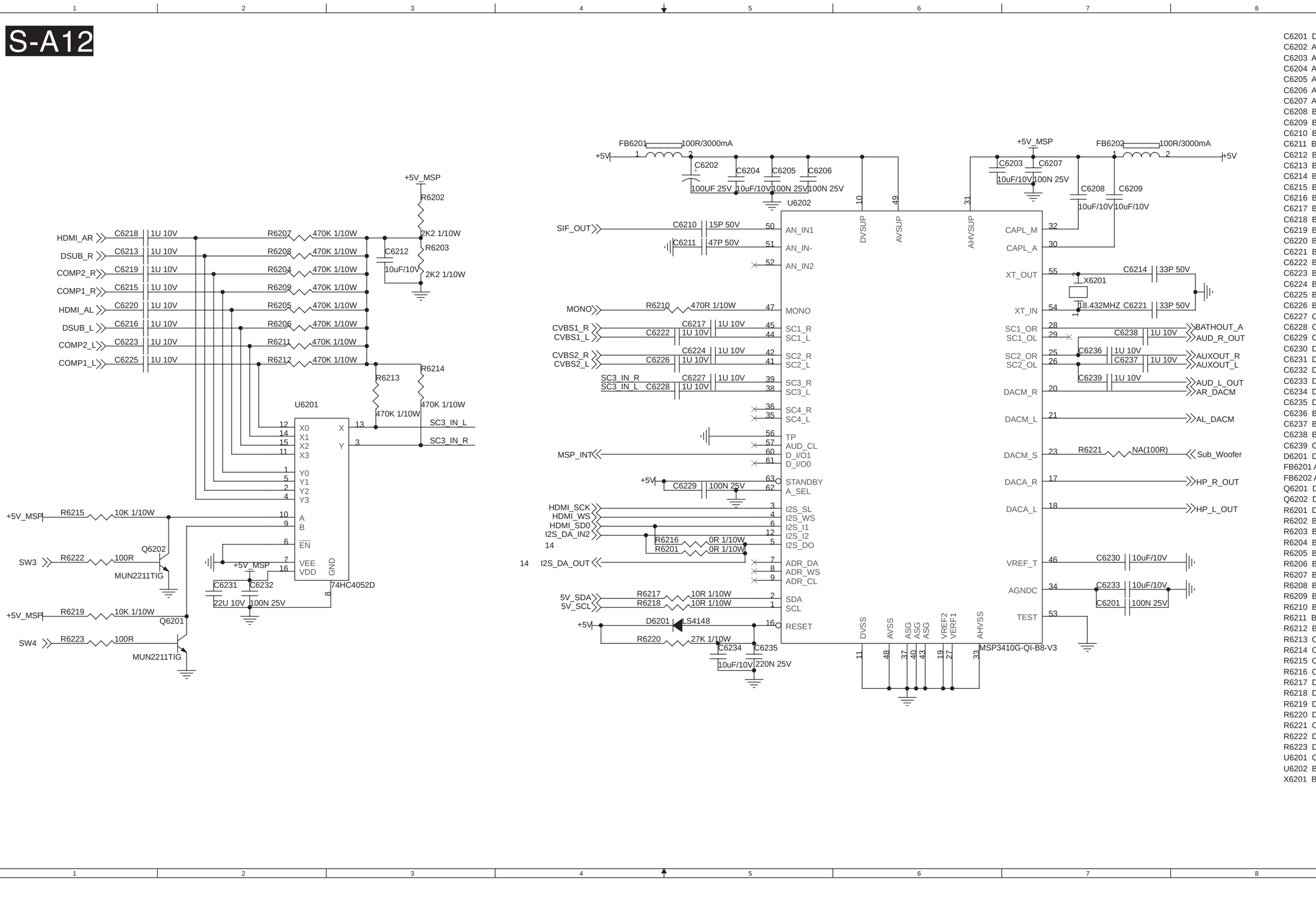
S-A11



C6101	B4
C6102	B1
C6103	B7
C6104	B3
C6105	C1
C6106	D5
C6107	D6
Q6101	B6
R6101	D2
R6102	B6
R6103	B7
R6104	C7
R6105	C7
R6106	C7
R6107	C7
R6108	C7
R6109	C7
R6110	D7
R6111	D7
R6112	D4
R6113	D2
R6114	D4
R6115	D2
R6116	D4
R6117	D7
U6101	C6
U6102	B1
U6103	C3
U6104	C4
U6105	D1

Scaler Board Schematic Diagram - AUDIO DECODER

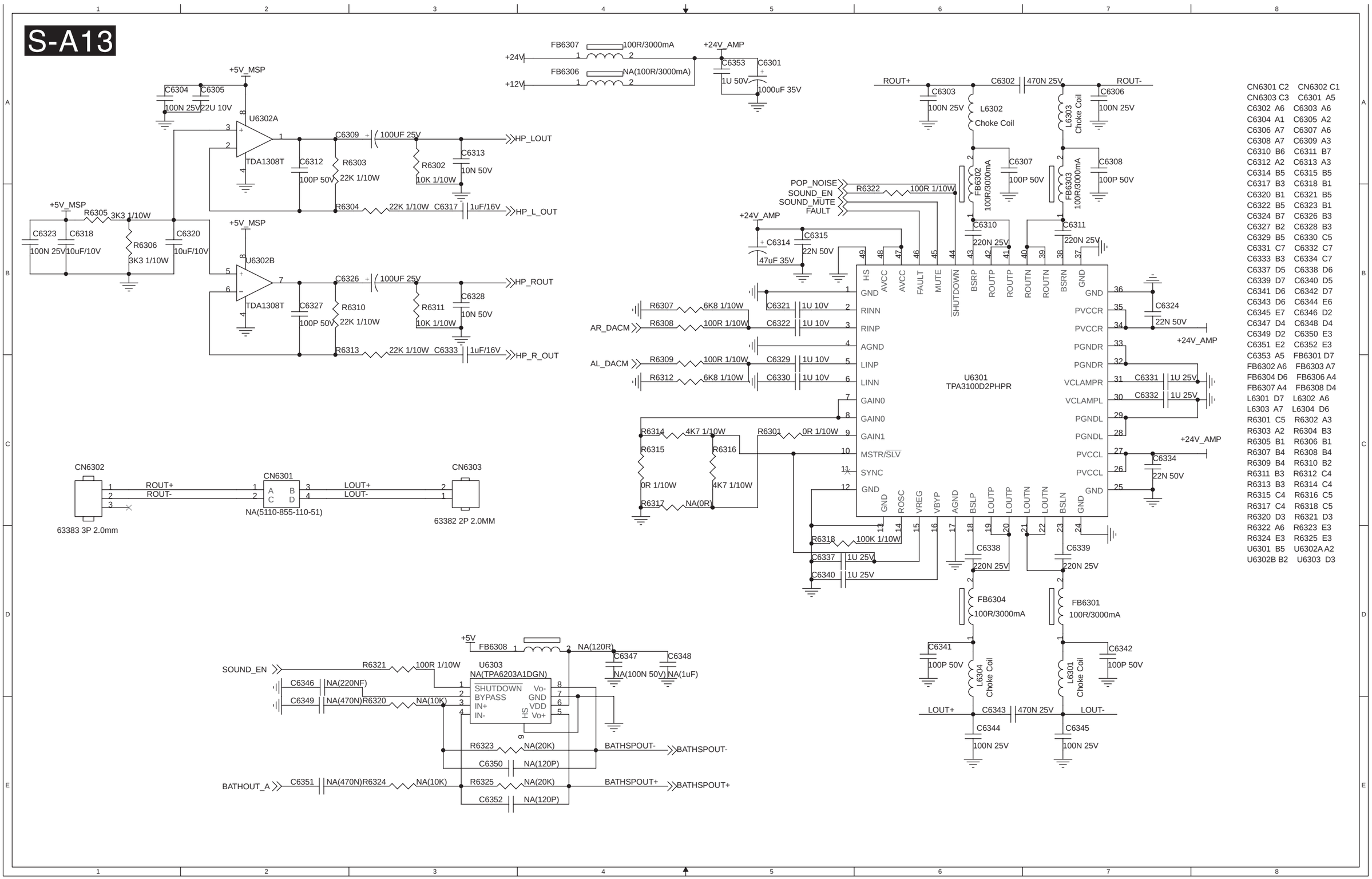
S-A12



C6201 D7
C6202 A5
C6203 A6
C6204 A5
C6205 A5
C6206 A5
C6207 A7
C6208 B7
C6209 B7
C6210 B5
C6211 B5
C6212 B3
C6213 B1
C6214 B7
C6215 B1
C6216 B1
C6217 B5
C6218 B1
C6219 B1
C6220 B1
C6221 B7
C6222 B5
C6223 B1
C6224 B5
C6225 B1
C6226 B5
C6227 C5
C6228 C5
C6229 C5
C6230 D7
C6231 D2
C6232 D2
C6233 D7
C6234 D5
C6235 D5
C6236 B7
C6237 B7
C6238 B7
C6239 C7
D6201 D4
FB6201 A4
FB6202 A7
Q6201 D2
Q6202 D1
R6201 D5
R6202 B3
R6203 B3
R6204 B2
R6205 B2
R6206 B2
R6207 B2
R6208 B2
R6209 B2
R6210 B4
R6211 B2
R6212 B2
R6213 C3
R6214 C3
R6215 C1
R6216 C5
R6217 D4
R6218 D4
R6219 D1
R6220 D4
R6221 C7
R6222 D1
R6223 D1
U6201 C2
U6202 B5
X6201 B7

Scaler Board Schematic Diagram - Audio_AMP

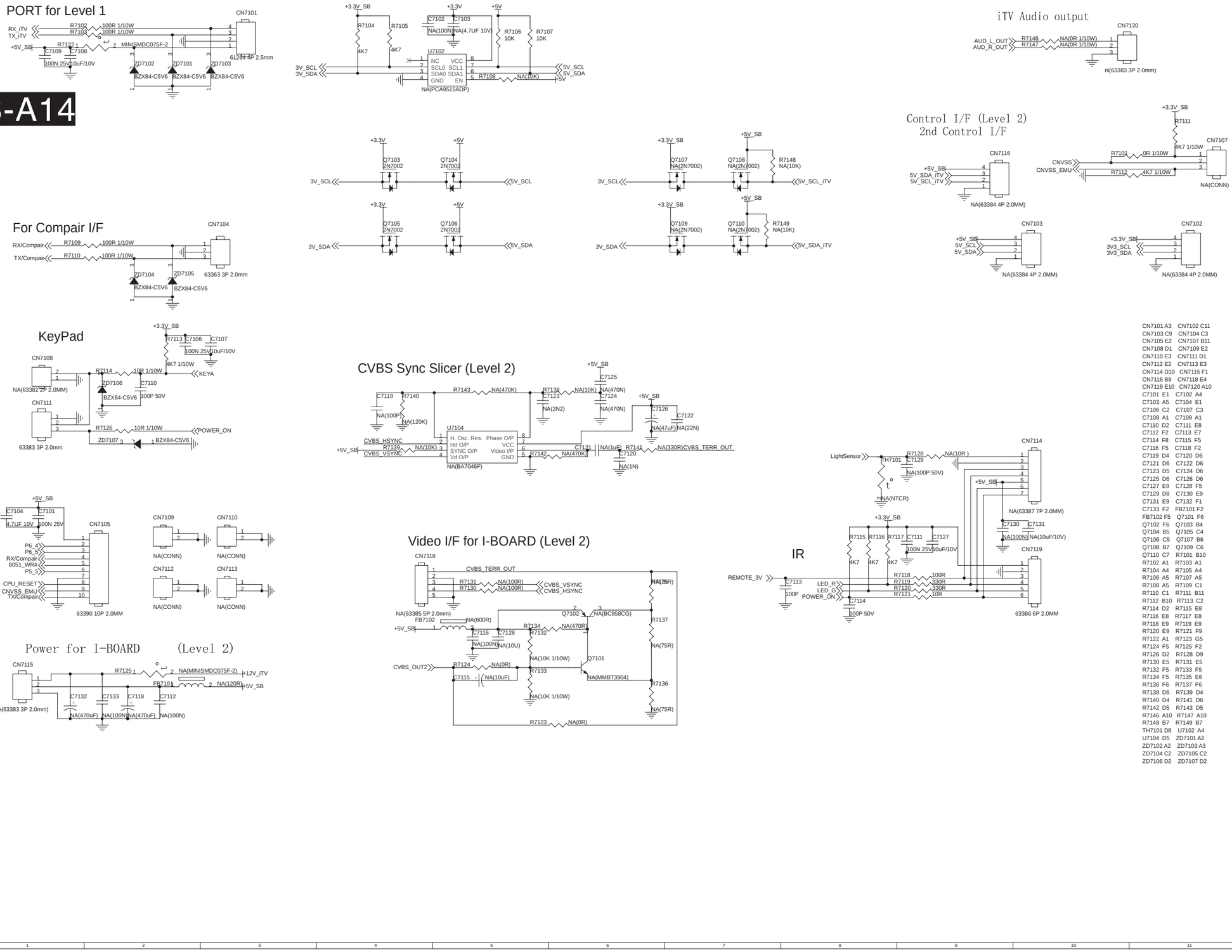
S-A13



CN6301 C2 CN6302 C1
CN6303 C3 C6301 A5
C6302 A6 C6303 A6
C6304 A1 C6305 A2
C6306 A7 C6307 A6
C6308 A7 C6309 A3
C6310 B6 C6311 B7
C6312 A2 C6313 A3
C6314 B5 C6315 B5
C6317 B3 C6318 B1
C6320 B1 C6321 B5
C6322 B5 C6323 B1
C6324 B7 C6326 B3
C6327 B2 C6328 B3
C6329 B5 C6330 C5
C6331 C7 C6332 C7
C6333 B3 C6334 C7
C6337 D5 C6338 D6
C6339 D7 C6340 D5
C6341 D6 C6342 D7
C6343 D6 C6344 E6
C6345 E7 C6346 D2
C6347 D4 C6348 D4
C6349 D2 C6350 E3
C6351 E2 C6352 E3
C6353 A5 FB6301 D7
FB6302 A6 FB6303 A7
FB6304 D6 FB6306 A4
FB6307 A4 FB6308 D4
L6301 D7 L6302 A6
L6303 A7 L6304 D6
R6301 C5 R6302 A3
R6303 A2 R6304 B3
R6305 B1 R6306 B1
R6307 B4 R6308 B4
R6309 B4 R6310 B2
R6311 B3 R6312 C4
R6313 B3 R6314 C4
R6315 C4 R6316 C5
R6317 C4 R6318 C5
R6320 D3 R6321 D3
R6322 A6 R6323 E3
R6324 E3 R6325 E3
U6301 B5 U6302A A2
U6302B B2 U6303 D3

Scaler Board Schematic Diagram - iTV & Compair & I2C

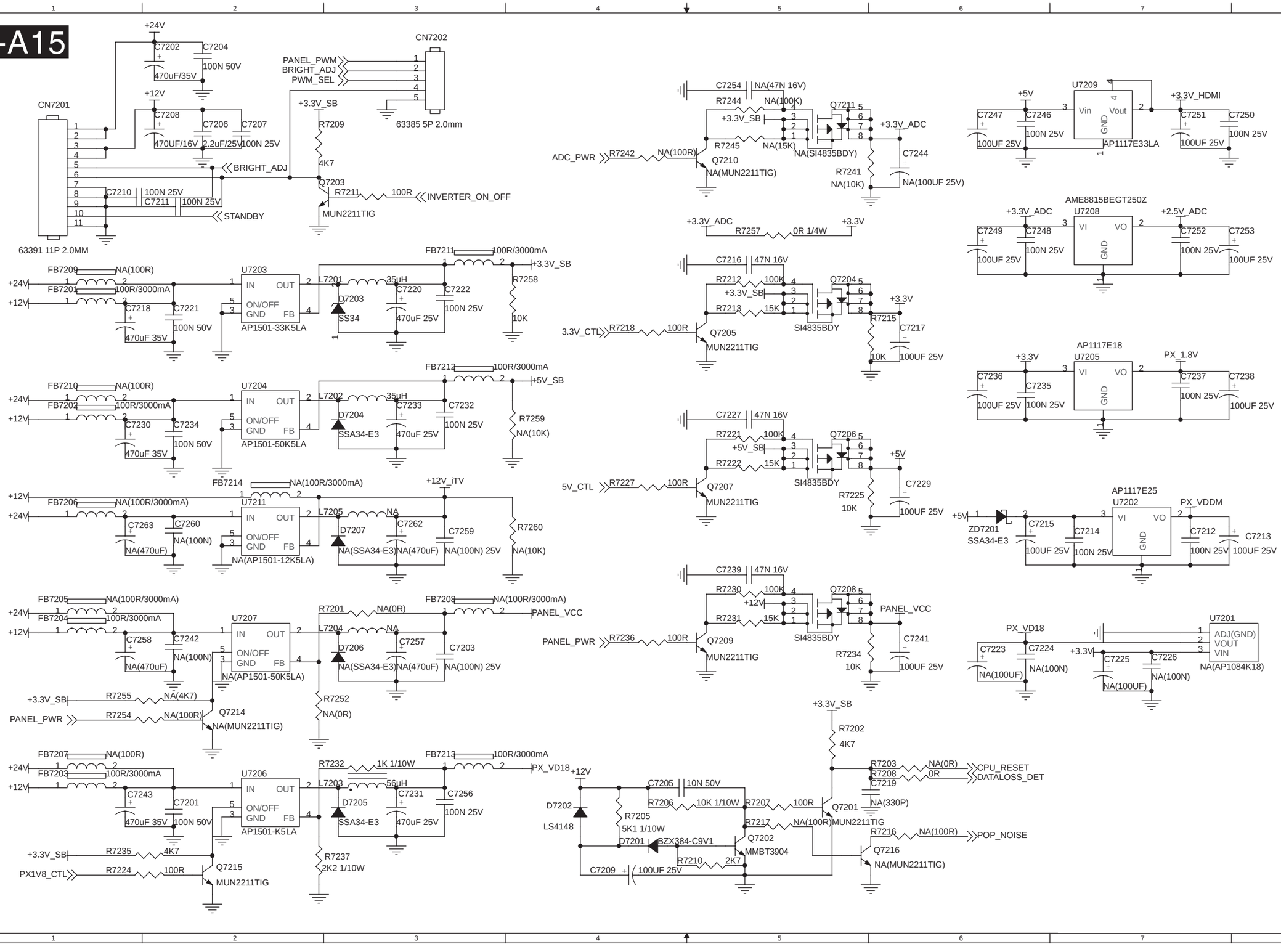
S-A14



CN7101 A3 CN7102 C11
CN7103 C9 CN7104 C3
CN7105 E2 CN7107 B11
CN7108 D1 CN7109 E2
CN7110 E3 CN7111 D1
CN7112 E2 CN7113 E3
CN7114 D10 CN7115 F1
CN7116 B9 CN7118 E4
CN7119 E10 CN7120 A10
C7101 E1 C7102 A4
C7103 A5 C7104 E1
C7106 C2 C7107 C3
C7108 A1 C7109 A1
C7110 D2 C7111 E8
C7112 F2 C7113 E7
C7114 F8 C7115 F5
C7116 F5 C7118 F2
C7119 D4 C7120 D6
C7121 D6 C7122 D6
C7123 D5 C7124 D6
C7125 D6 C7126 D6
C7127 E9 C7128 F5
C7129 D8 C7130 E9
C7131 E9 C7132 F1
C7133 F2 FB7101 F2
FB7102 F5 Q7101 F6
Q7102 F6 Q7103 B4
Q7104 B5 Q7105 C4
Q7106 C5 Q7107 B6
Q7108 B7 Q7109 C6
Q7110 C7 R7101 B10
R7102 A1 R7103 A1
R7104 A4 R7105 A4
R7106 A5 R7107 A5
R7108 A5 R7109 C1
R7110 C1 R7111 B11
R7112 B10 R7113 C2
R7114 D2 R7115 E8
R7116 E8 R7117 E8
R7118 E9 R7119 E9
R7120 E9 R7121 F9
R7122 A1 R7123 G5
R7124 F5 R7125 F2
R7126 D2 R7128 D9
R7130 E5 R7131 E5
R7132 F5 R7133 F5
R7134 F5 R7135 E6
R7136 F6 R7137 F6
R7138 D6 R7139 D4
R7140 D4 R7141 D6
R7142 D5 R7143 D5
R7146 A10 R7147 A10
R7148 B7 R7149 B7
TH7101 D8 U7102 A4
U7104 D5 ZD7101 A2
ZD7102 A2 ZD7103 A3
ZD7104 C2 ZD7105 C2
ZD7106 D2 ZD7107 D2

Scaler Board Schematic Diagram - Power

S-A15



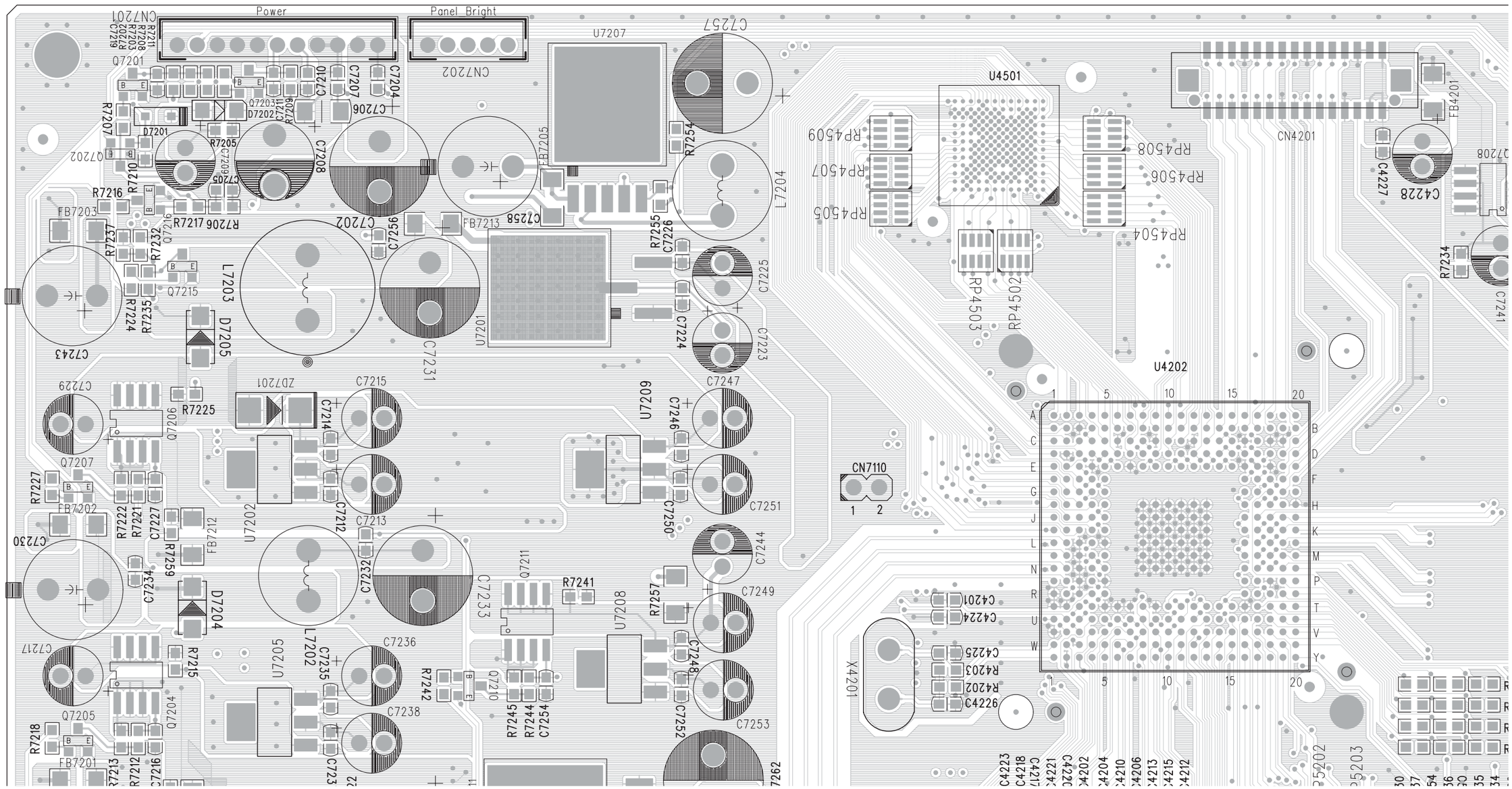
CN7201 A1 CN7202 A3
C7201 E2 C7202 A2
C7203 D3 C7204 A2
C7205 E4 C7206 A2
C7207 A2 C7208 A2
C7209 E4 C7210 A1
C7211 A2 C7212 C7
C7213 C7 C7214 C7
C7215 C6 C7216 B5
C7217 B6 C7218 B1
C7219 E5 C7220 B3
C7221 B2 C7222 B3
C7223 D6 C7224 D6
C7225 D7 C7226 D7
C7227 C5 C7229 C6
C7230 C1 C7231 E3
C7232 C3 C7233 C3
C7234 C2 C7235 C6
C7236 B6 C7237 B7
C7238 B7 C7239 C5
C7241 D6 C7242 D2
C7243 E1 C7244 A6
C7246 A6 C7247 A6
C7248 B6 C7249 B6
C7250 A7 C7251 A7
C7252 B7 C7253 B7
C7254 A5 C7256 E3
C7257 D3 C7258 D1
C7259 C3 C7260 C2
C7262 C3 C7263 C1
D7201 E4 D7202 E4
D7203 B3 D7204 C3
D7205 E3 D7206 D3
D7207 C3 FB7201 B1
FB7202 C1 FB7203 E1
FB7204 D1 FB7205 D1
FB7206 C1 FB7207 D1
FB7208 D3 FB7209 B1
FB7210 B1 FB7211 B3
FB7212 B3 FB7213 D3
FB7214 C2 L7201 B3
L7202 C3 L7203 E3
L7204 D3 L7205 C3
Q7201 E5 Q7202 E5
Q7203 A2 Q7204 B5
Q7205 B4 Q7206 C5
Q7207 C4 Q7208 D5
Q7209 D4 Q7210 A4
Q7211 A5 Q7214 D2
Q7215 E2 Q7216 E5
R7201 D3 R7202 D5
R7203 D6 R7205 E4
R7206 E4 R7207 E5
R7208 E6 R7209 A2
R7210 E5 R7211 A3
R7212 B5 R7213 B5
R7215 B5 R7216 E6
R7217 E5 R7218 B4
R7221 C5 R7222 C5
R7224 E1 R7225 C5
R7227 C4 R7230 D5
R7231 D5 R7232 D3
R7234 D5 R7235 E1
R7236 D4 R7237 E2
R7241 A5 R7242 A4
R7244 A5 R7245 A5
R7252 D2 R7254 D1
R7255 D1 R7257 B5
R7258 B3 R7259 C3
R7260 C3 U7201 D7
U7202 C7 U7203 B2
U7204 C2 U7205 B7
U7206 E2 U7207 D2
U7208 B7 U7209 A7
U7211 C2 ZD7201 C6

Scaler Board Layout(Top Side)

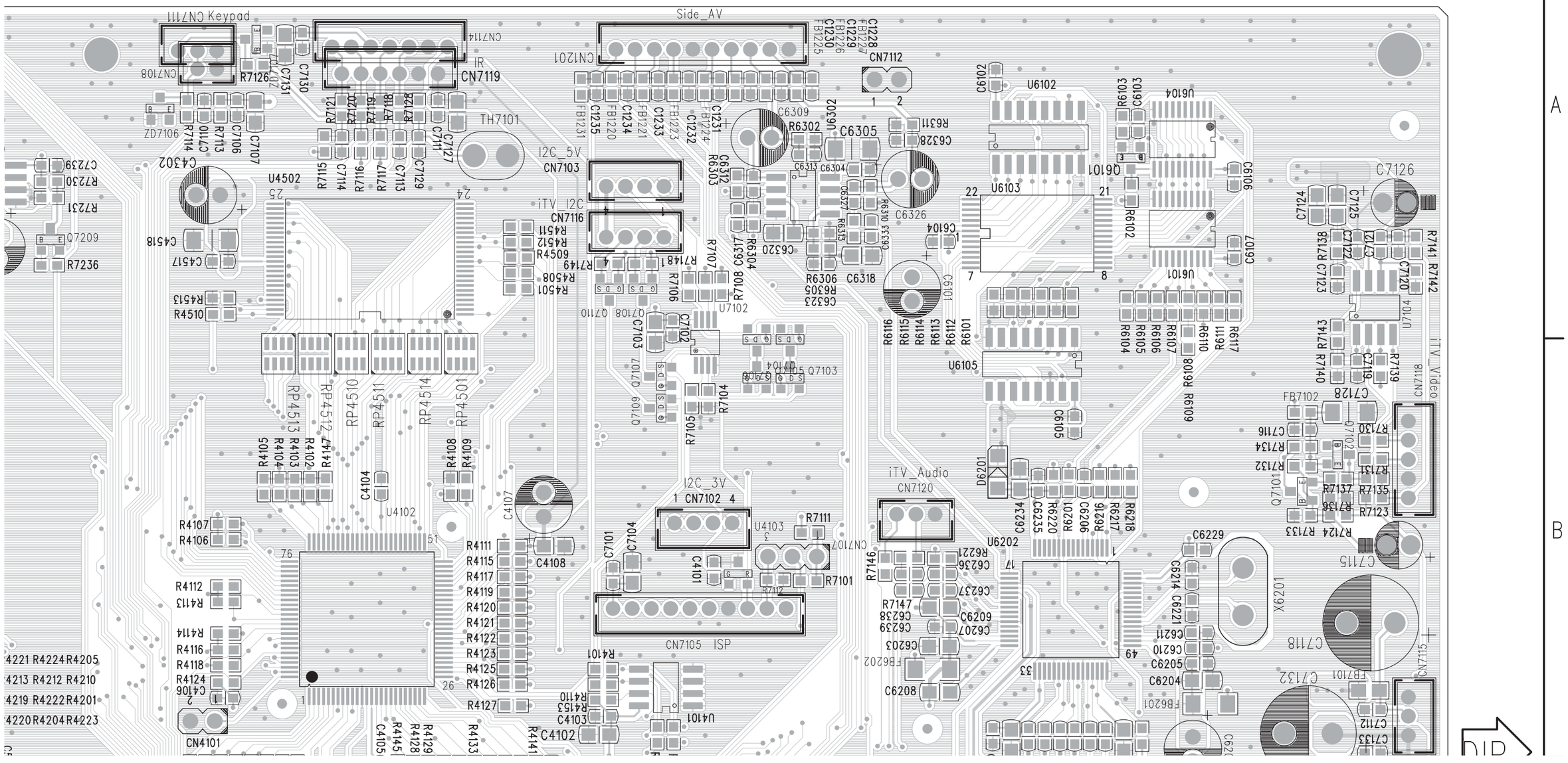
| | | |

Scaler Board Layout(Top Side Part 1)

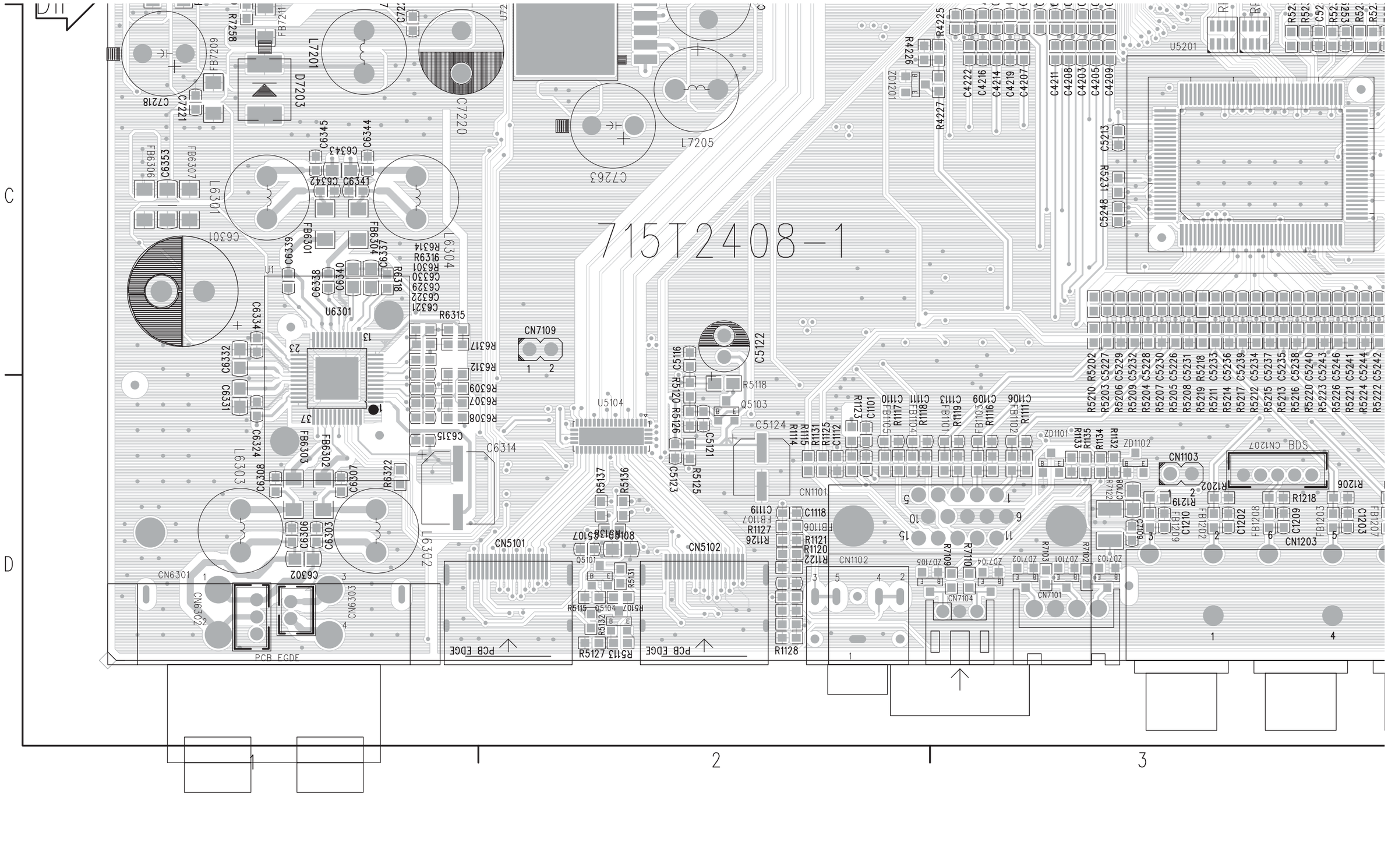
715T2



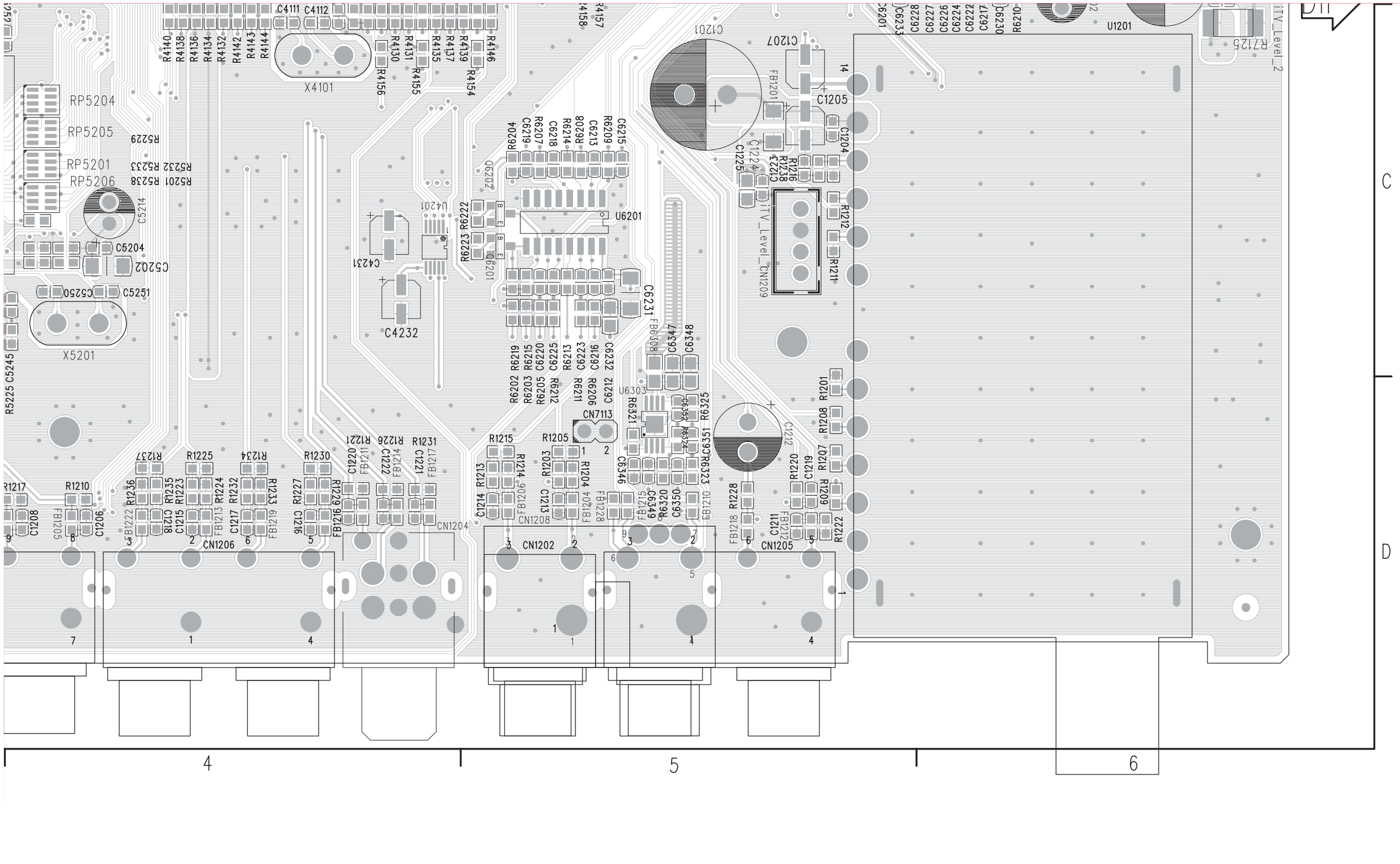
Scaler Board Layout(Top Side Part 2)



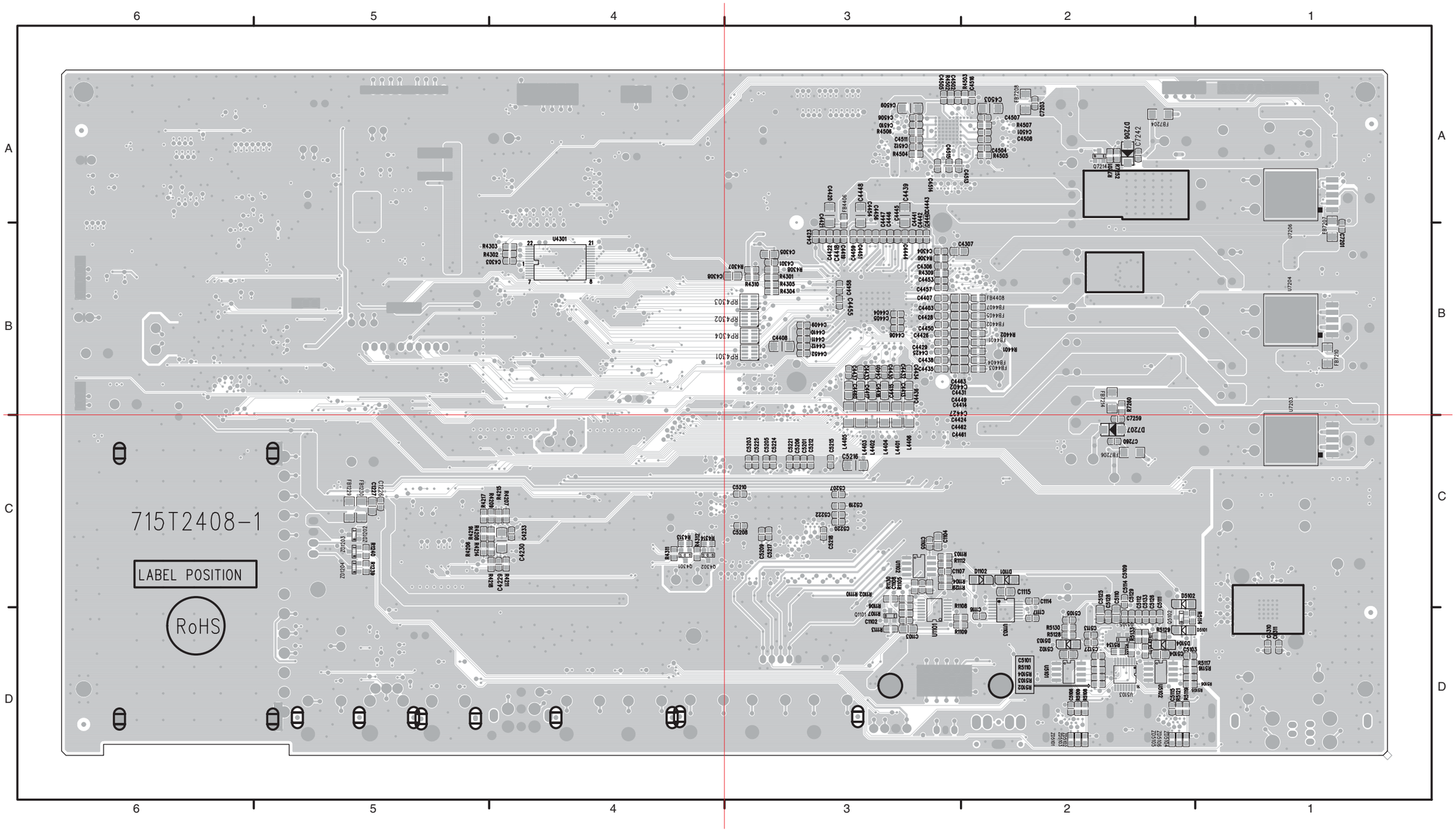
Scaler Board Layout(Top Side Part 3)



Scaler Board Layout(Top Side Part 4)

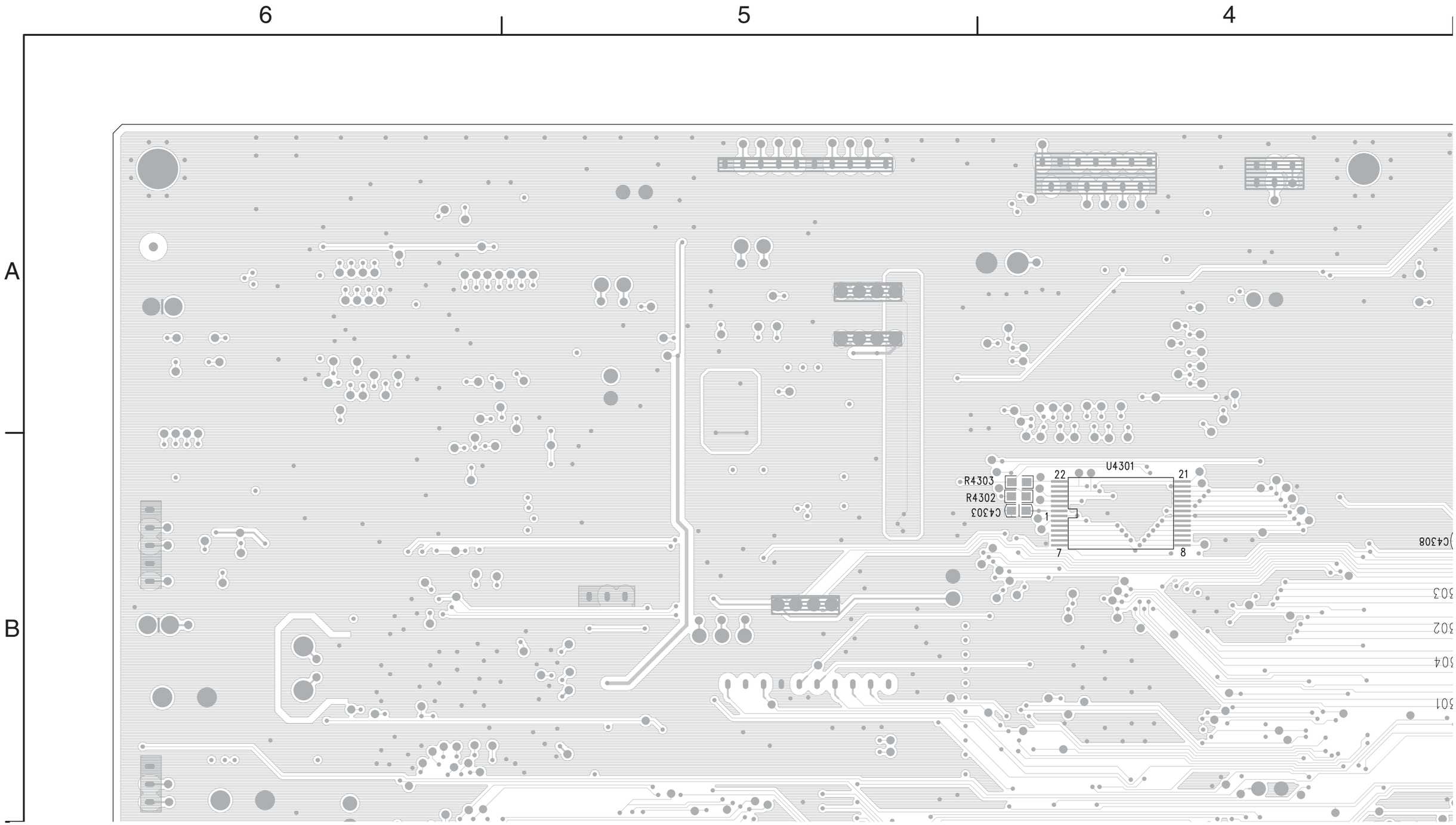


Scaler Board Layout(Bottom Side)

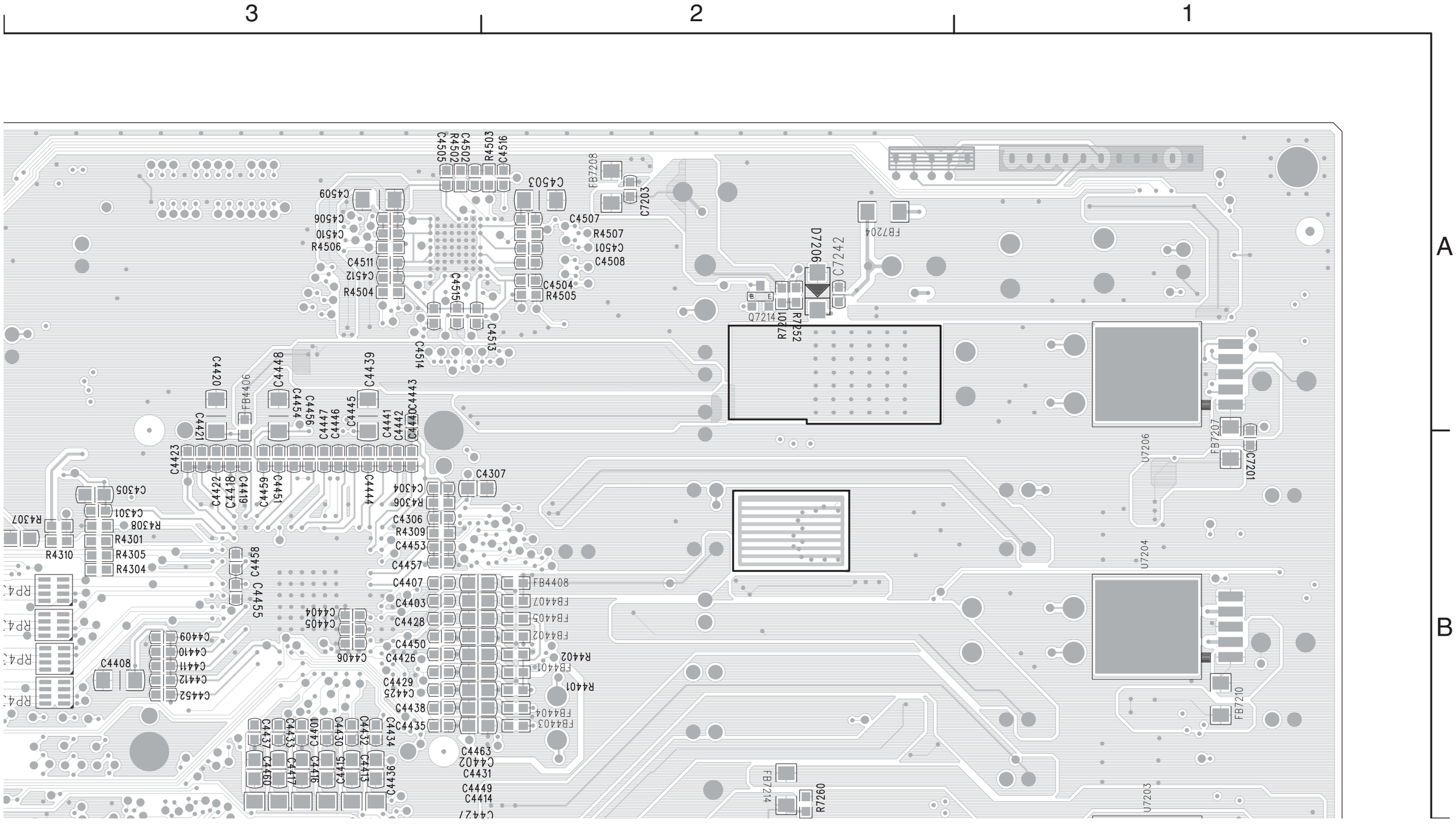


C1102	D3	C4448	B3	C5225	C3	R4301	B3
C1103	D3	C4449	B3	C6310	D1	R4302	B4
C1104	C3	C4450	B3	C6311	D1	R4303	B4
C1105	C3	C4451	B3	C7201	B1	R4304	B3
C1107	C3	C4452	B3	C7203	A2	R4305	B3
C1108	C3	C4453	B3	C7242	A2	R4306	B3
C1114	C2	C4454	B3	C7259	C2	R4307	B3
C1115	C2	C4455	B3	C7260	C2	R4308	B3
C1116	D2	C4456	B3	D1101	C2	R4309	B3
C1117	D2	C4457	B3	D1102	C2	R4310	B3
C1226	C5	C4458	B3	D5101	D2	R4311	C4
C1227	C5	C4459	B3	D5102	C2	R4312	C4
C4229	C4	C4460	B3	D5103	D2	R4313	C4
C4230	C4	C4461	B3	D5104	D2	R4314	C4
C4233	C4	C4462	B3	D7206	A2	R4401	B2
C4301	B3	C4463	B3	D7207	C2	R4402	B2
C4303	B4	C4501	A2	FB1229	C5	R4502	A3
C4304	B3	C4502	A3	FB1230	C5	R4503	A2
C4305	B3	C4503	A2	FB4401	B2	R4504	A3
C4306	B3	C4504	A2	FB4402	B2	R4505	A2
C4307	B3	C4505	A3	FB4403	B2	R4506	A3
C4308	B3	C4506	A3	FB4404	B2	R4507	A2
C4401	B3	C4507	A2	FB4405	B2	R5101	D2
C4402	B3	C4508	A2	FB4406	B3	R5102	D2
C4403	B3	C4509	A3	FB4407	B2	R5103	D2
C4404	B3	C4510	A3	FB4408	B2	R5104	D2
C4405	B3	C4511	A3	FB7204	A2	R5105	D2
C4406	B3	C4512	A3	FB7206	C2	R5106	D2
C4407	B3	C4513	A3	FB7207	B1	R5108	D2
C4408	B3	C4514	A3	FB7208	A2	R5109	D2
C4409	B3	C4515	A3	FB7210	B1	R5110	D2
C4410	B3	C4516	A2	FB7214	B2	R5111	D2
C4411	B3	C5101	D2	L4401	C3	R5114	D2
C4412	B3	C5102	D2	L4402	C3	R5116	D2
C4413	B3	C5103	D2	L4403	C3	R5117	D2
C4414	B3	C5104	D2	L4404	C3	R5119	D2
C4415	B3	C5105	D2	L4405	C3	R5121	D2
C4416	B3	C5106	D2	L4406	C3	R5128	D2
C4417	B3	C5109	C2	Q1101	D3	R5129	D2
C4418	B3	C5110	D2	Q4301	C4	R5130	D2
C4419	B3	C5111	D2	Q4302	C4	R5133	D2
C4420	B3	C5112	D2	Q5102	D2	R5134	D2
C4421	B3	C5113	D2	Q5105	D2	R5135	D2
C4422	B3	C5114	D2	Q7214	A2	R7201	A2
C4423	B3	C5115	D2	R1102	C3	R7252	A2
C4424	B3	C5125	D2	R1103	C3	R7260	B2
C4425	B3	C5126	D2	R1104	C3	RP4301	B3
C4426	B3	C5127	D2	R1105	C3	RP4302	B3
C4427	B3	C5128	D2	R1106	D3	RP4303	B3
C4428	B3	C5129	D2	R1107	D3	RP4304	B3
C4429	B3	C5133	D2	R1108	D3	U1101	D3
C4430	B3	C5201	C3	R1109	D3	U1102	C3
C4431	B3	C5203	C3	R1110	C3	U1103	C2
C4432	B3	C5205	C3	R1112	C3	U4301	B4
C4433	B3	C5206	C3	R1113	D3	U5101	D2
C4434	B3	C5207	C3	R1129	C3	U5102	D2
C4435	B3	C5208	C3	R1130	C3	U5103	D2
C4436	B3	C5209	C3	R1239	C5	U7203	C1
C4437	B3	C5210	C3	R1240	C5	U7204	B1
C4438	B3	C5212	C3	R4206	C5	U7206	A1
C4439	B3	C5215	C3	R4207	C4	ZD1202	C5
C4440	B3	C5216	C3	R4208	C4	ZD1203	C5
C4441	B3	C5217	C3	R4209	C4	ZD1204	C5
C4442	B3	C5218	C3	R4211	C4	ZD5101	D2
C4443	B3	C5219	C3	R4214	C4	ZD5102	D2
C4444	B3	C5220	C3	R4215	C4	ZD5103	D2
C4445	B3	C5221	C3	R4216	C5	ZD5104	D2
C4446	B3	C5222	C3	R4217	C5	ZD5105	D2
C4447	B3	C5224	C3	R4218	C4	ZD5106	D2

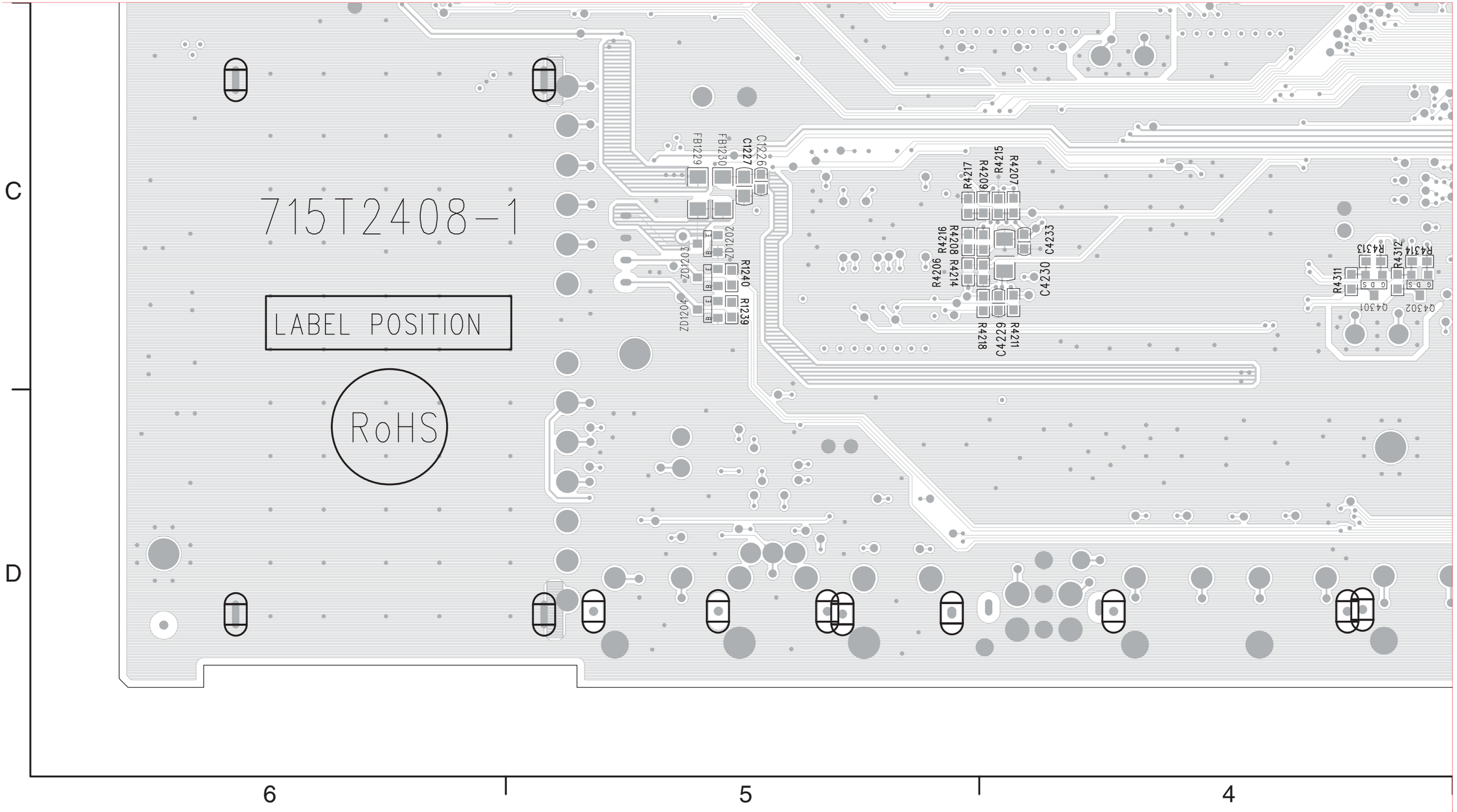
Scaler Board Layout(Bottom Side Part 1)



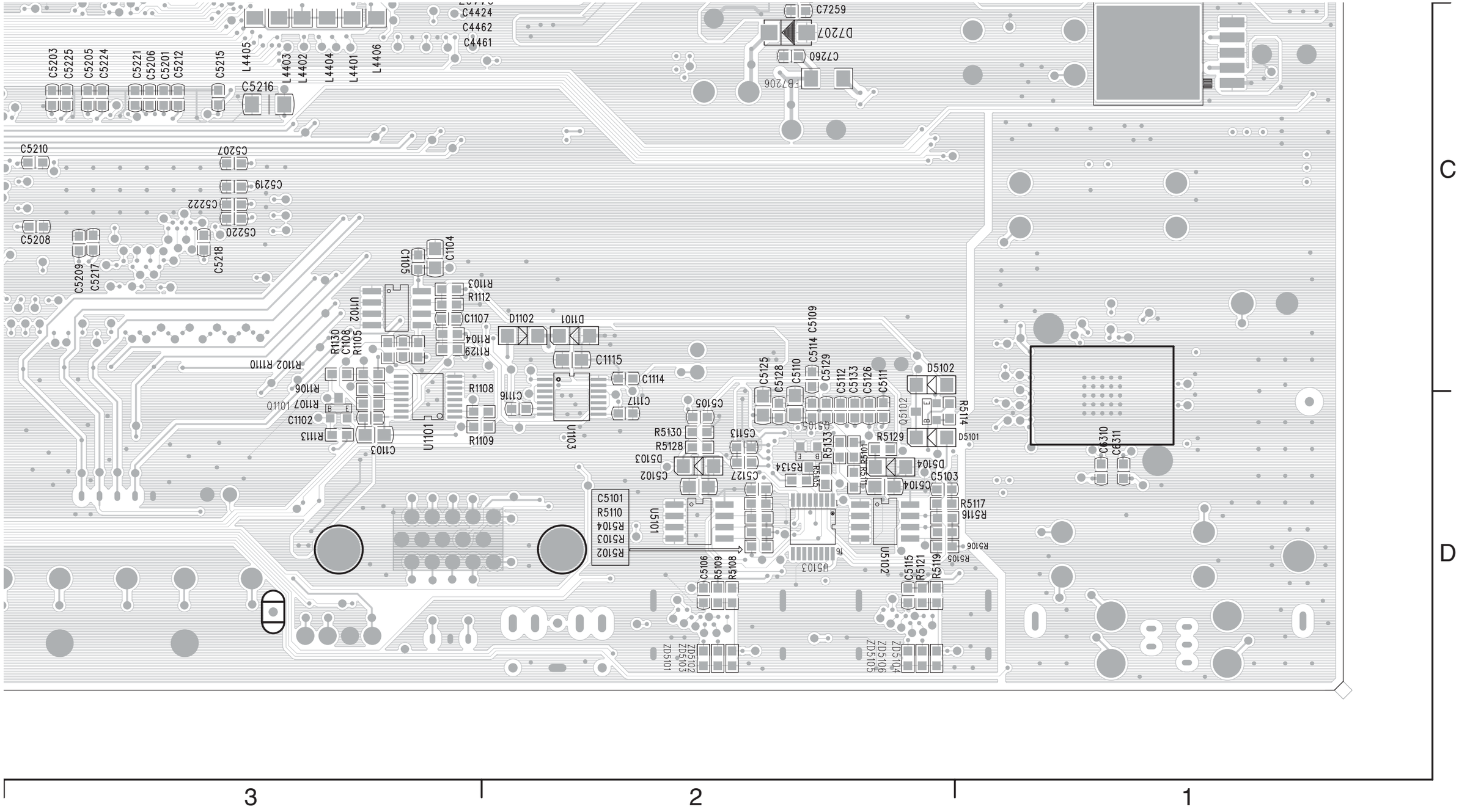
Scaler Board Layout(Bottom Side Part 2)



Scaler Board Layout(Bottom Side Part 3)

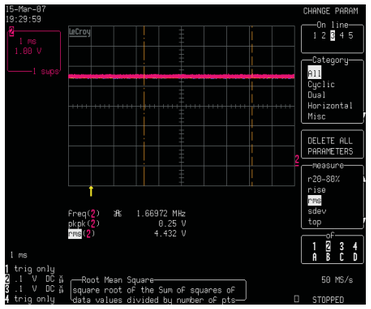


Scaler Board Layout(Bottom Side Part 4)

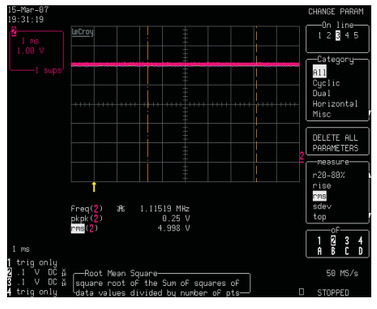


Waveform Diagram

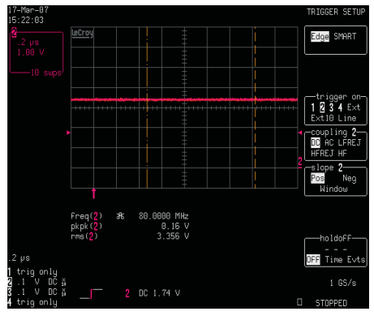
1.BDDCWP_PC(U1102 Pin 7)



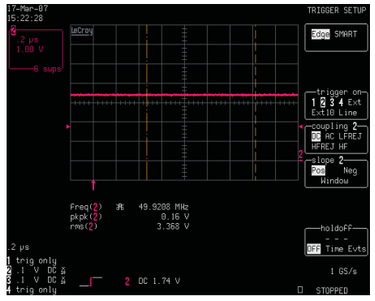
2. +5V_Tuner(U1201 Pin 3)



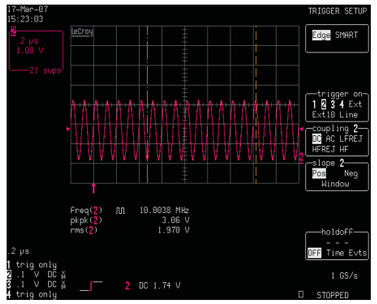
3. CPU_RESET(U4103 Pin 2)



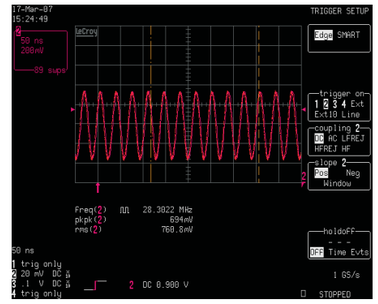
4. E_PAGE(U4101 Pin 7)



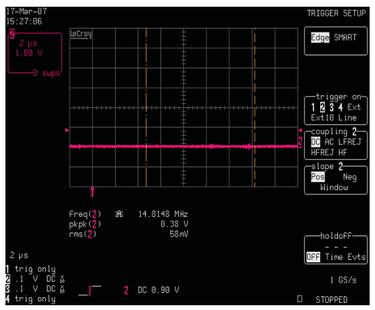
5. 10MHz(X4101 Pin 1)



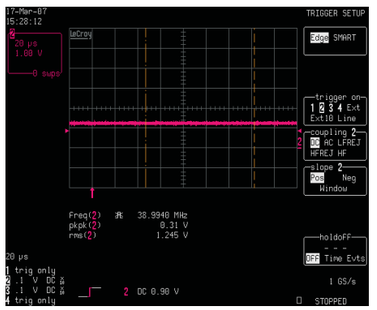
6. 28.322MHz(X4201 Pin 1)



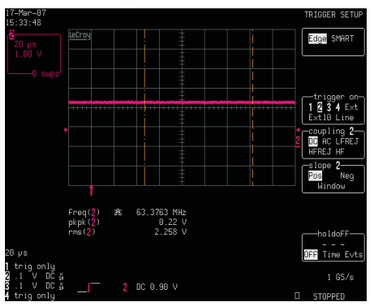
7. RESET_H(R4301)



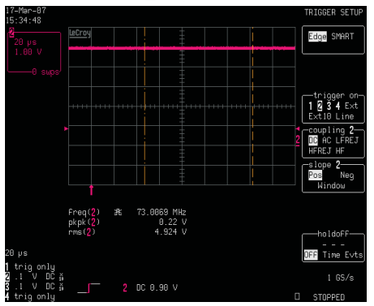
8. PX_VDDM(C4307)



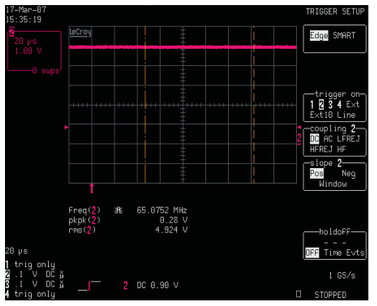
9. DDCWP_HDMI(U5101 Pin 7)



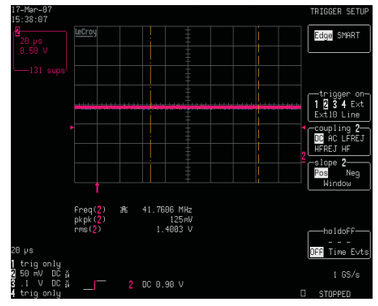
10. HDMI1_5V(U5101 Pin 8)



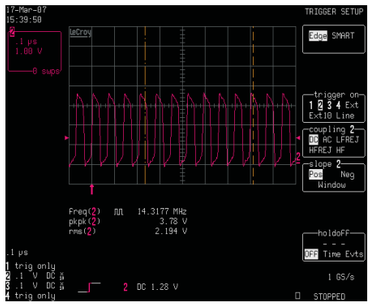
11. HDMI2_5V(U5102 Pin 8)



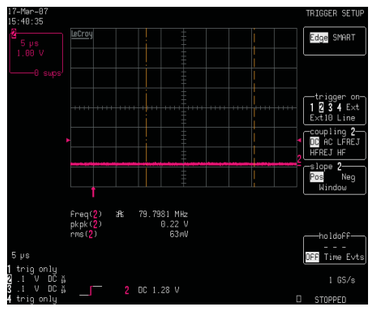
12. +1.5V(C5124)



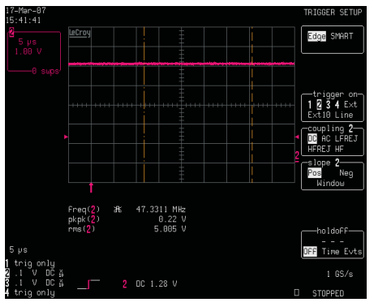
13. 14.3181MHz(X5201 Pin 1)



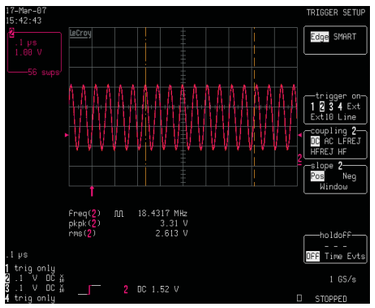
14. ADC_RESET(R5201)



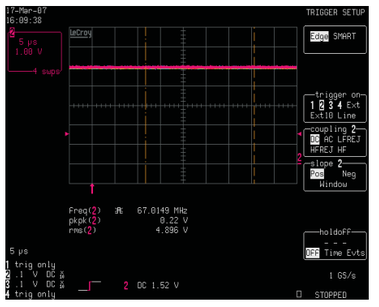
15. +5V_MSP(C6203)



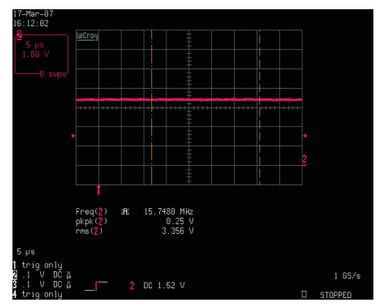
16. 18.432MHz(X6201 Pin 1)



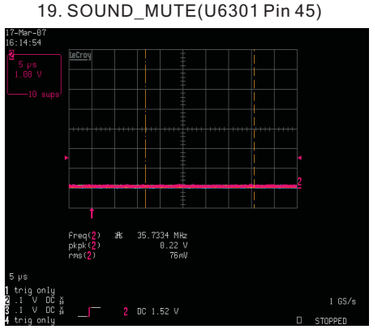
17. RESET(U6202 Pin 16)



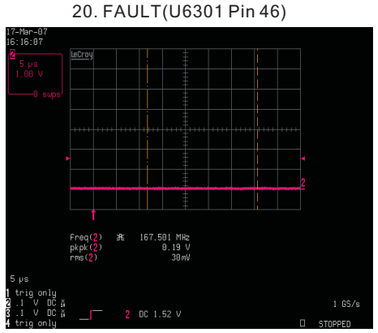
18. SOUND_EN(U6301 pin 44)



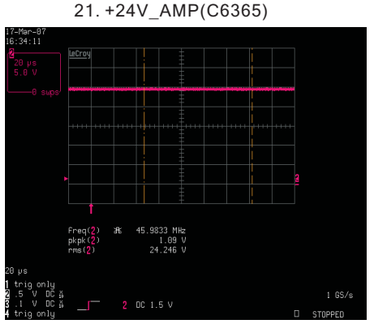
19. SOUND_MUTE(U6301 Pin 45)



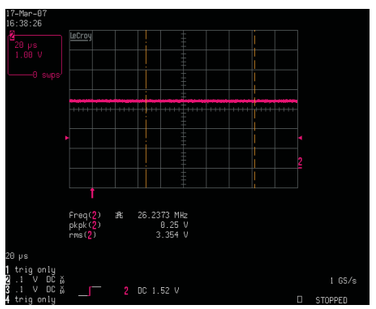
20. FAULT(U6301 Pin 46)



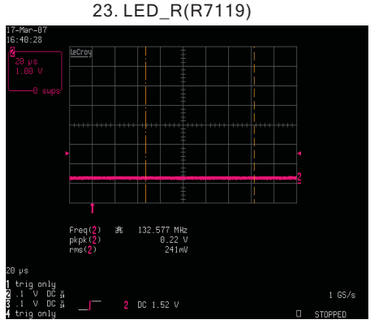
21. +24V_AMP(C6365)



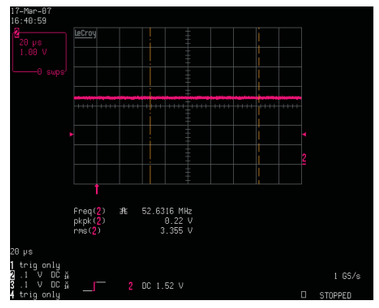
22. POWER_ON(R7126)



23. LED_R(R7119)

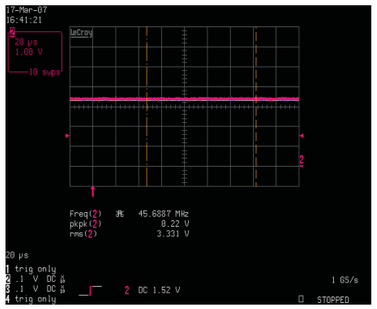


24. LED_G(R7120)

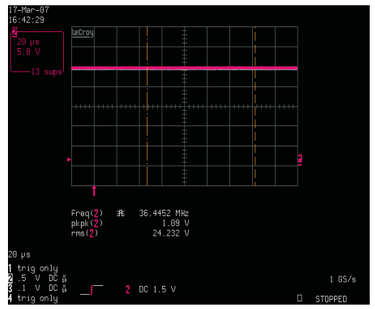


Waveform Diagram

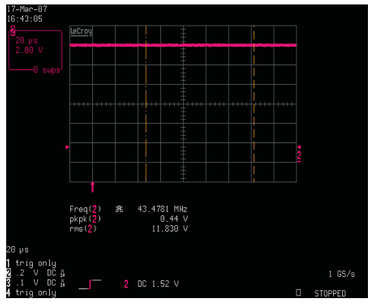
25. REMOTE_3V(C7113)



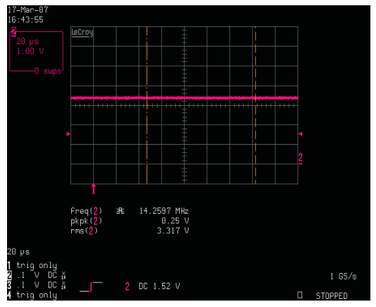
26. +24V(C7202)



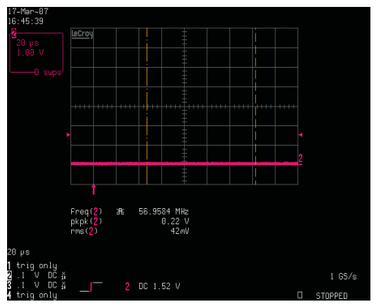
27. +12V(C7208)



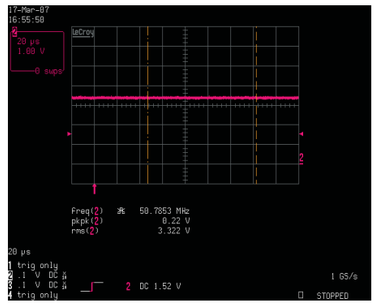
28. BRIGHT_ADJ(CN7201 Pin 5)



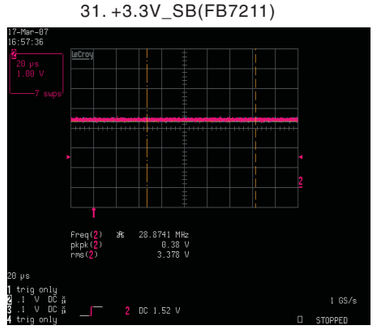
29. INVERTER_ON_OFF(R7211)



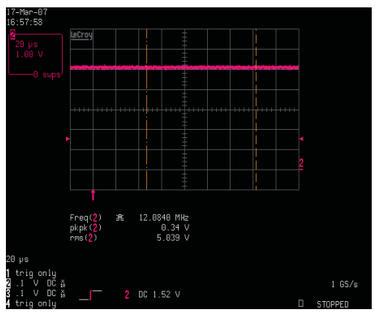
30. STANDBY(CN7201 Pin 10)



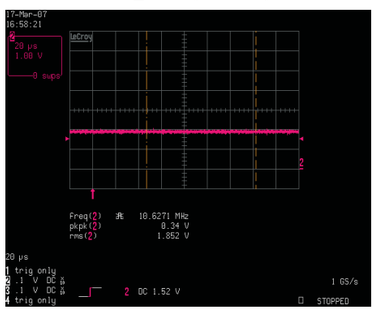
31. +3.3V_SB(FB7211)



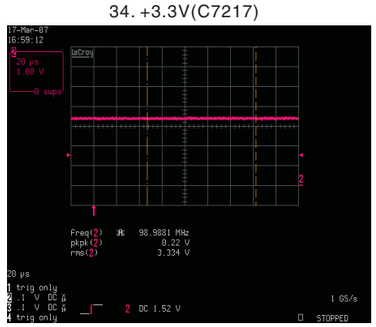
32. +5V_SB(FB7212)



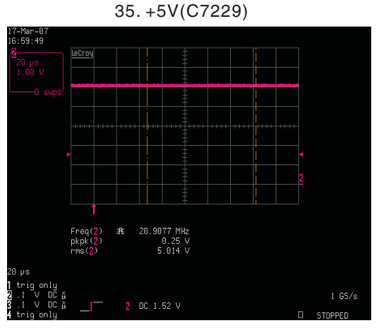
33. PX_VD18(FB7213)



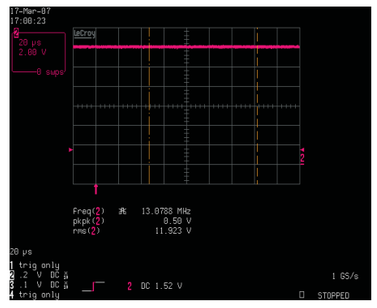
34. +3.3V(C7217)



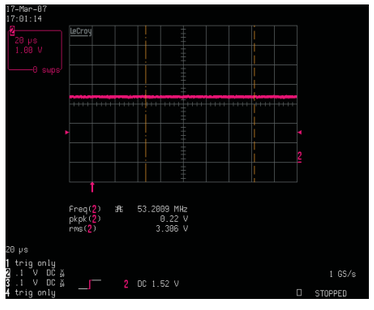
35. +5V(C7229)



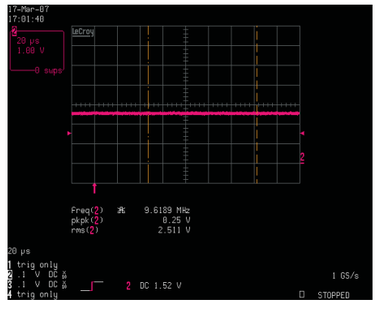
36. PANEL_VCC(C7241)



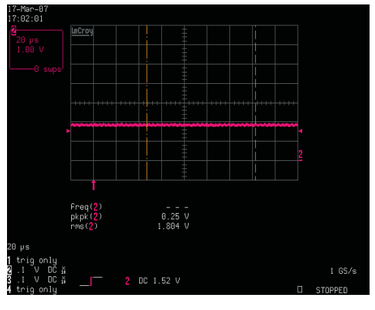
37. +3.3V_HDMI(C7250)



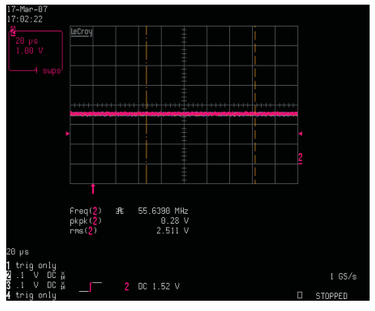
38. +2.5V_ADC(C7252)



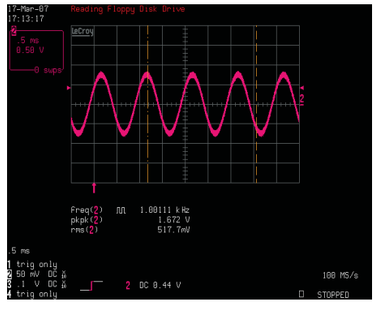
39. PX_1.8V(C7238)



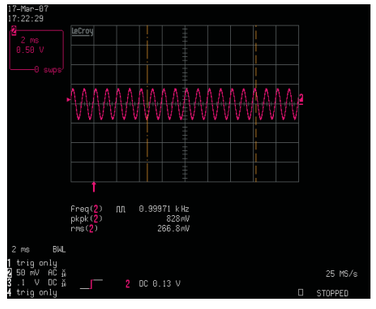
40. PX_VDDM(C7213)



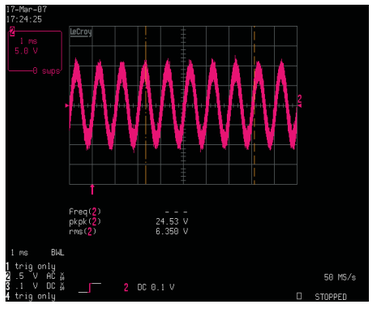
41. COMP1_L(FB1213)



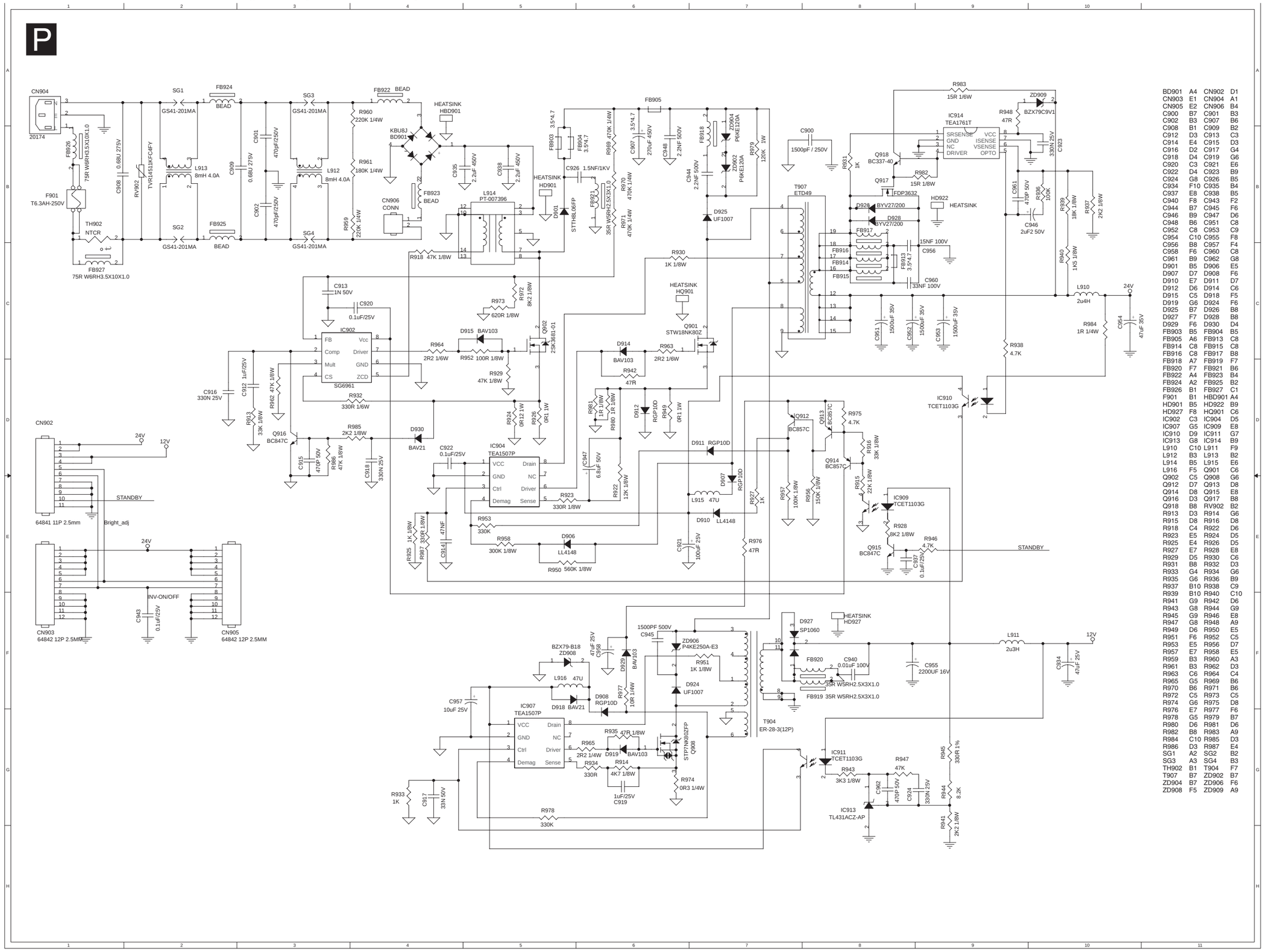
42. AL_DACM(R6309)



43. LOUT+(CN6303 Pin 2)

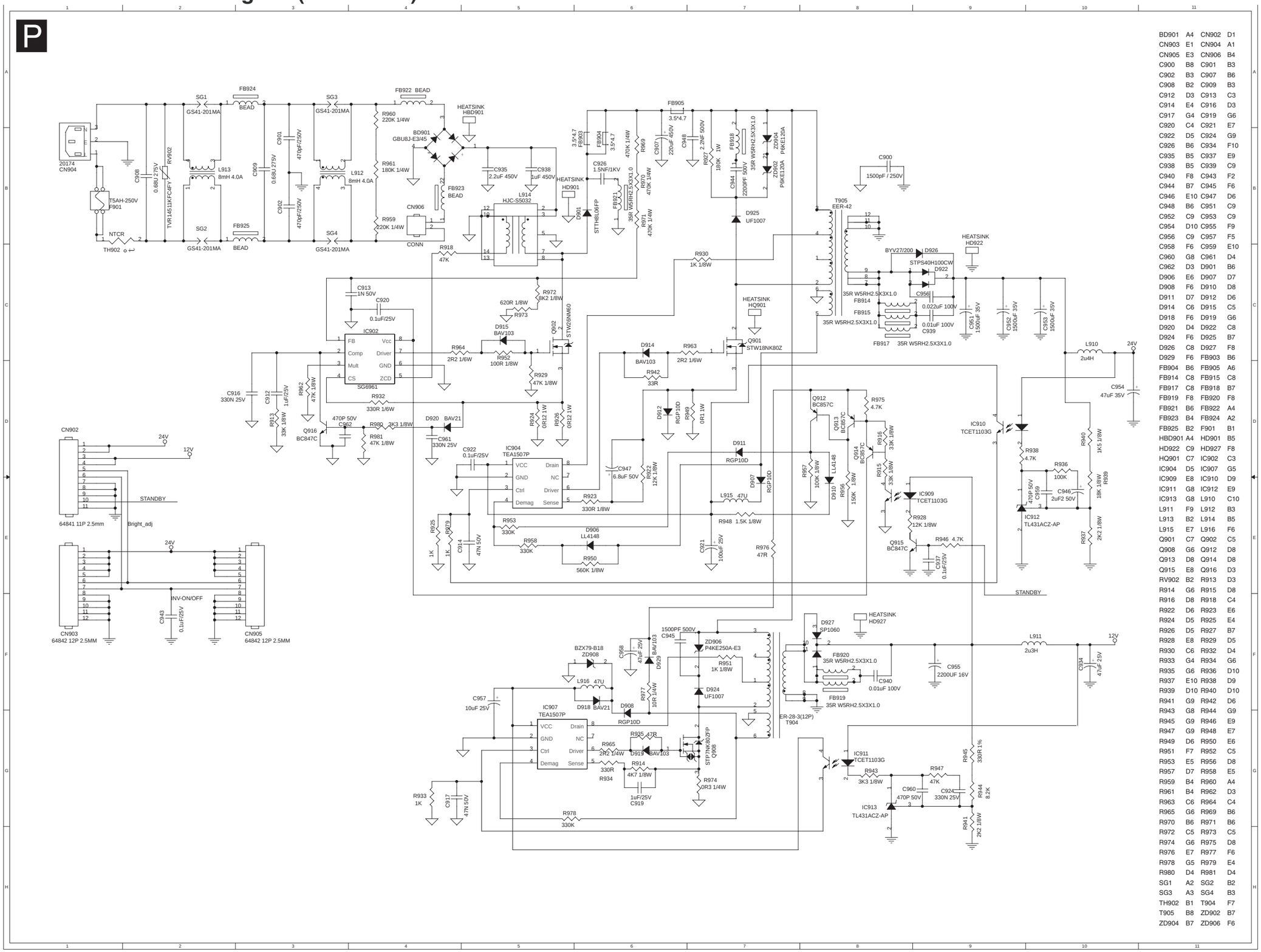


Power Board Schematic Diagram(for 47PFL)



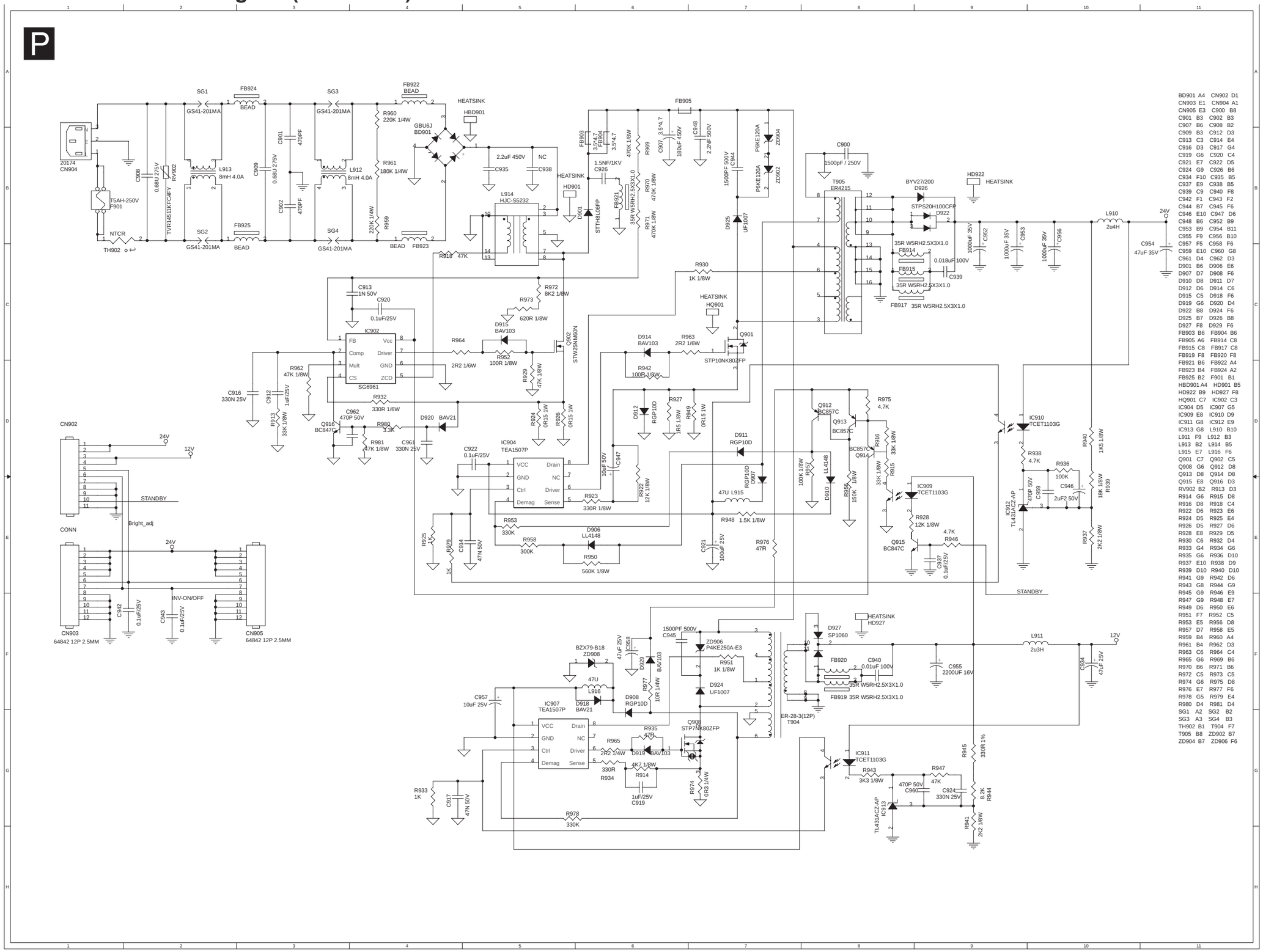
BD901	A4	CN902	D1
CN903	E1	CN904	A1
CN905	E2	CN906	B4
C900	B7	C901	B3
C902	B3	C907	B6
C908	B1	C909	B2
C912	D3	C913	C3
C914	E4	C915	D3
C916	D2	C917	G4
C918	D4	C919	G6
C920	C3	C921	E6
C922	D4	C923	B9
C924	G8	C926	B5
C934	F10	C935	B4
C937	E8	C938	B5
C940	F8	C943	F2
C944	B7	C945	F6
C946	B9	C947	D6
C948	B6	C951	C8
C952	C8	C953	C9
C954	C10	C955	F8
C956	B8	C957	F4
C958	F6	C960	C8
C961	B9	C962	G8
D901	B5	D906	E5
D907	D7	D908	F6
D910	E7	D911	D7
D912	D6	D914	C6
D915	C5	D918	F5
D919	G6	D924	F6
D925	B7	D926	B8
D927	F7	D928	B8
D929	F6	D930	D4
FB903	B5	FB904	B5
FB905	A6	FB913	C8
FB914	C8	FB915	C8
FB916	C8	FB917	B8
FB918	A7	FB919	F7
FB920	F7	FB921	B6
FB922	A4	FB923	B4
FB924	A2	FB925	B2
FB926	B1	FB927	C1
F901	B1	HBD901	A4
HD901	B5	HD922	B9
HD927	F8	HQ901	C6
IC902	C3	IC904	D5
IC907	G5	IC909	E8
IC910	D9	IC911	G7
IC913	G8	IC914	B9
L910	C10	L911	F9
L912	B3	L913	B2
L914	B5	L915	E6
L916	F5	Q901	C6
Q902	C5	Q908	G6
Q912	D7	Q913	D8
Q914	D8	Q915	E8
Q916	D3	Q917	B8
Q918	B8	RV902	B2
R913	D3	R914	G6
R915	D8	R916	D8
R918	C4	R922	D6
R923	E5	R924	D5
R925	E4	R926	D5
R927	E7	R928	E8
R929	D5	R930	C6
R931	B8	R932	D3
R933	G4	R934	G6
R935	G6	R936	B9
R937	B10	R938	C9
R939	B10	R940	C10
R941	G9	R942	D6
R943	G8	R944	G9
R945	G9	R946	E8
R947	G8	R948	A9
R949	D6	R950	E5
R951	F6	R952	C5
R953	E5	R956	D7
R957	E7	R958	E5
R959	B3	R960	A3
R961	B3	R962	D3
R963	C6	R964	C4
R965	G5	R969	B6
R970	B6	R971	B6
R972	C5	R973	C5
R974	G6	R975	D8
R976	E7	R977	F6
R978	G5	R979	B7
R980	D6	R981	D6
R982	B8	R983	A9
R984	C10	R985	D3
R986	D3	R987	E4
SG1	A2	SG2	B2
SG3	A3	SG4	B3
TH902	B1	T904	F7
T907	B7	ZD902	B7
ZD904	B7	ZD906	F6
ZD908	F5	ZD909	A9

Power Board Schematic Diagram(for 42PFL)



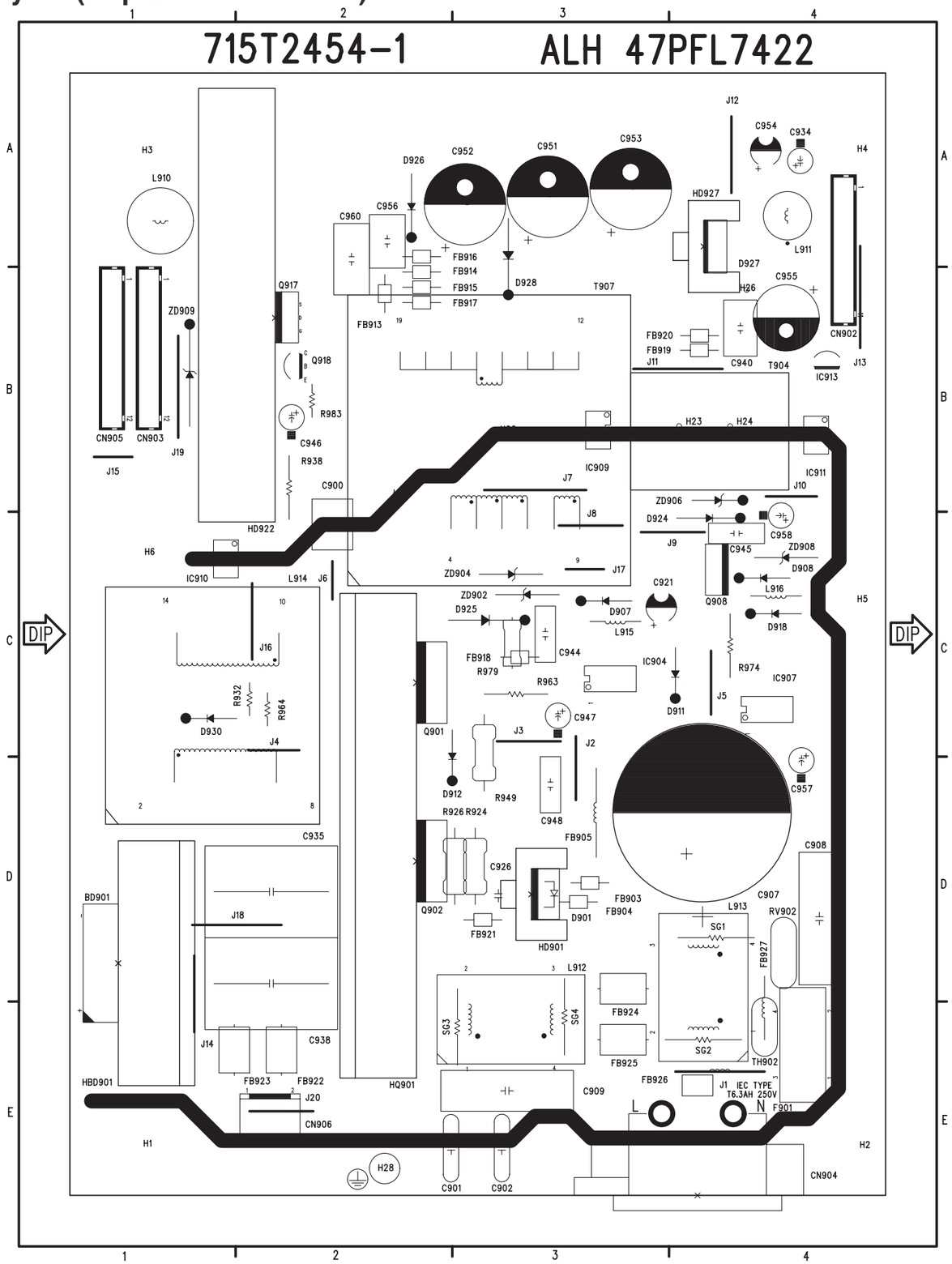
BD901	A4	CN902	D1
CN903	E1	CN904	A1
CN905	E3	CN906	B4
C900	B8	C901	B3
C902	B3	C907	B6
C908	B2	C909	B3
C912	D3	C913	C3
C914	E4	C916	D3
C917	G4	C919	G6
C920	C4	C921	E7
C922	D5	C924	G9
C926	B6	C934	F10
C935	B5	C937	E9
C938	B5	C939	C9
C940	F8	C943	F2
C944	B7	C945	F6
C946	E10	C947	D6
C948	B6	C951	C9
C952	C9	C953	C9
C954	D10	C955	F9
C956	C9	C957	F5
C958	F6	C959	E10
C960	G8	C961	D4
C962	D3	D901	B6
D906	E6	D907	D7
D908	F6	D910	D8
D911	D7	D912	D6
D914	C6	D915	C5
D918	F6	D919	G6
D920	D4	D922	C8
D924	F6	D925	B7
D926	C8	D927	F8
D929	F6	FB903	B6
FB904	B6	FB905	A6
FB914	C8	FB915	C8
FB917	C8	FB918	B7
FB919	F8	FB920	F8
FB921	B6	FB922	A4
FB923	B4	FB924	A2
FB925	B2	F901	B1
HBD901	A4	HD901	B5
HD922	C9	HD927	F8
HQ901	C7	IC902	C3
IC904	D5	IC907	G5
IC909	E8	IC910	D9
IC911	G8	IC912	E9
IC913	G8	L910	C10
L911	F9	L912	B3
L913	B2	L914	B5
L915	E7	L916	F6
Q901	C7	Q902	C5
Q908	G6	Q912	D8
Q913	D8	Q914	D8
Q915	E8	Q916	D3
RV902	B2	R913	D3
R914	G6	R915	D8
R916	D8	R918	C4
R922	D6	R923	E6
R924	D5	R925	E4
R926	D5	R927	B7
R928	E8	R929	D5
R930	C6	R932	D4
R933	G4	R934	G6
R935	G6	R936	D10
R937	E10	R938	D9
R939	D10	R940	D10
R941	G9	R942	D6
R943	G8	R944	G9
R945	G9	R946	E9
R947	G9	R948	E7
R949	D6	R950	E6
R951	F7	R952	C5
R953	E5	R956	D8
R957	D7	R958	E5
R959	B4	R960	A4
R961	B4	R962	D3
R963	C6	R964	C4
R965	G6	R969	B6
R970	B6	R971	B6
R972	C5	R973	C5
R974	G6	R975	D8
R976	E7	R977	F6
R978	G5	R979	E4
R980	D4	R981	D4
SG1	A2	SG2	B2
SG3	A3	SG4	B3
TH902	B1	T904	F7
T905	B8	ZD902	B7
ZD904	B7	ZD906	F6

Power Board Schematic Diagram(for 37PFL)

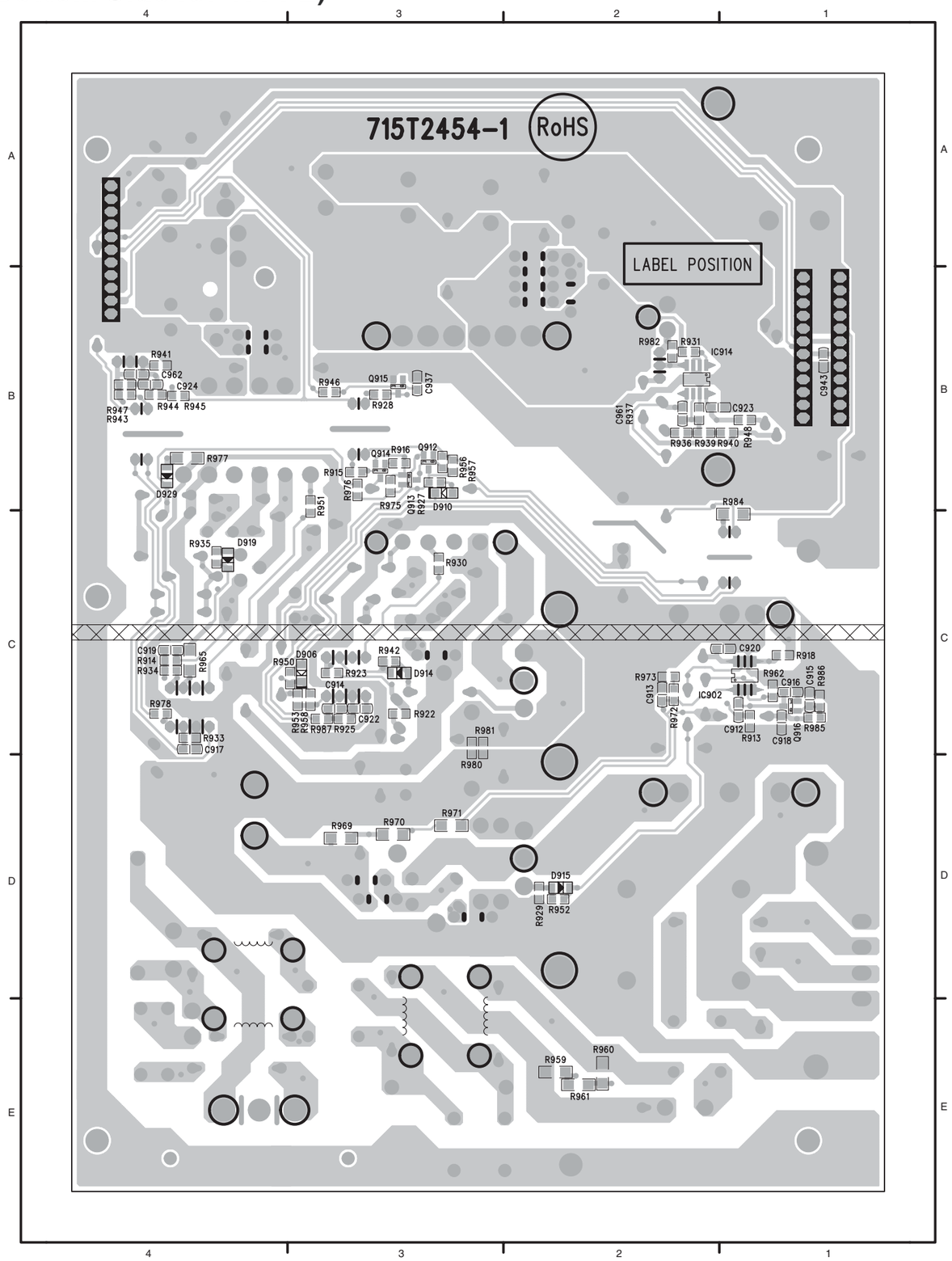


BD901 A4 CN902 D1
CN903 E1 CN904 A1
CN905 E3 C900 B8
C901 B3 C902 B3
C907 B6 C908 B2
C909 B3 C912 D3
C913 C3 C914 E4
C916 D3 C917 G4
C919 G6 C920 C4
C921 E7 C922 D5
C924 G9 C926 B6
C934 F10 C935 B5
C937 E9 C938 B5
C939 C9 C940 F8
C942 F1 C943 F2
C944 B7 C945 F6
C946 E10 C947 D6
C948 B6 C952 B9
C953 B9 C954 B11
C955 F9 C956 B10
C957 F5 C958 F6
C959 E10 C960 G8
C961 D4 C962 D3
D901 B6 D906 E6
D907 D7 D908 F6
D910 D8 D911 D7
D912 D6 D914 C6
D915 C5 D918 F6
D919 G6 D920 D4
D922 B8 D924 F6
D925 B7 D926 B8
D927 F8 D929 F6
FB903 B6 FB904 B6
FB905 A6 FB914 C8
FB915 C8 FB917 C8
FB919 F8 FB920 F8
FB921 B6 FB922 A4
FB923 B4 FB924 A2
FB925 B2 F901 B1
HBD901 A4 HD901 B5
HD922 B9 HD927 F8
HQ901 C7 IC902 C3
IC904 D5 IC907 G5
IC909 E8 IC910 D9
IC911 G8 IC912 E9
IC913 G8 L910 B10
L911 F9 L912 B3
L913 B2 L914 B5
L915 E7 L916 F6
Q901 C7 Q902 C5
Q908 G6 Q912 D8
Q913 D8 Q914 D8
Q915 E8 Q916 D3
RV902 B2 R913 D3
R914 G6 R915 D8
R916 D8 R918 C4
R922 D6 R923 E6
R924 D5 R925 E4
R926 D5 R927 D6
R928 E8 R929 D5
R930 C6 R932 D4
R933 G4 R934 G6
R935 G6 R936 D10
R937 E10 R938 D9
R939 D10 R940 D10
R941 G9 R942 D6
R943 G8 R944 G9
R945 G9 R946 E9
R947 G9 R948 E7
R949 D6 R950 E6
R951 F7 R952 C5
R953 E5 R956 D8
R957 D7 R958 E5
R959 B4 R960 A4
R961 B4 R962 D3
R963 C6 R964 C4
R965 G6 R969 B6
R970 B6 R971 B6
R972 C5 R973 C5
R974 G6 R975 D8
R976 E7 R977 F6
R978 G5 R979 E4
R980 D4 R981 D4
SG1 A2 SG2 B2
SG3 A3 SG4 B3
TH902 B1 T904 F7
T905 B8 ZD902 B7
ZD904 B7 ZD906 F6

Power Board Layout(Top Side for 47PFL)

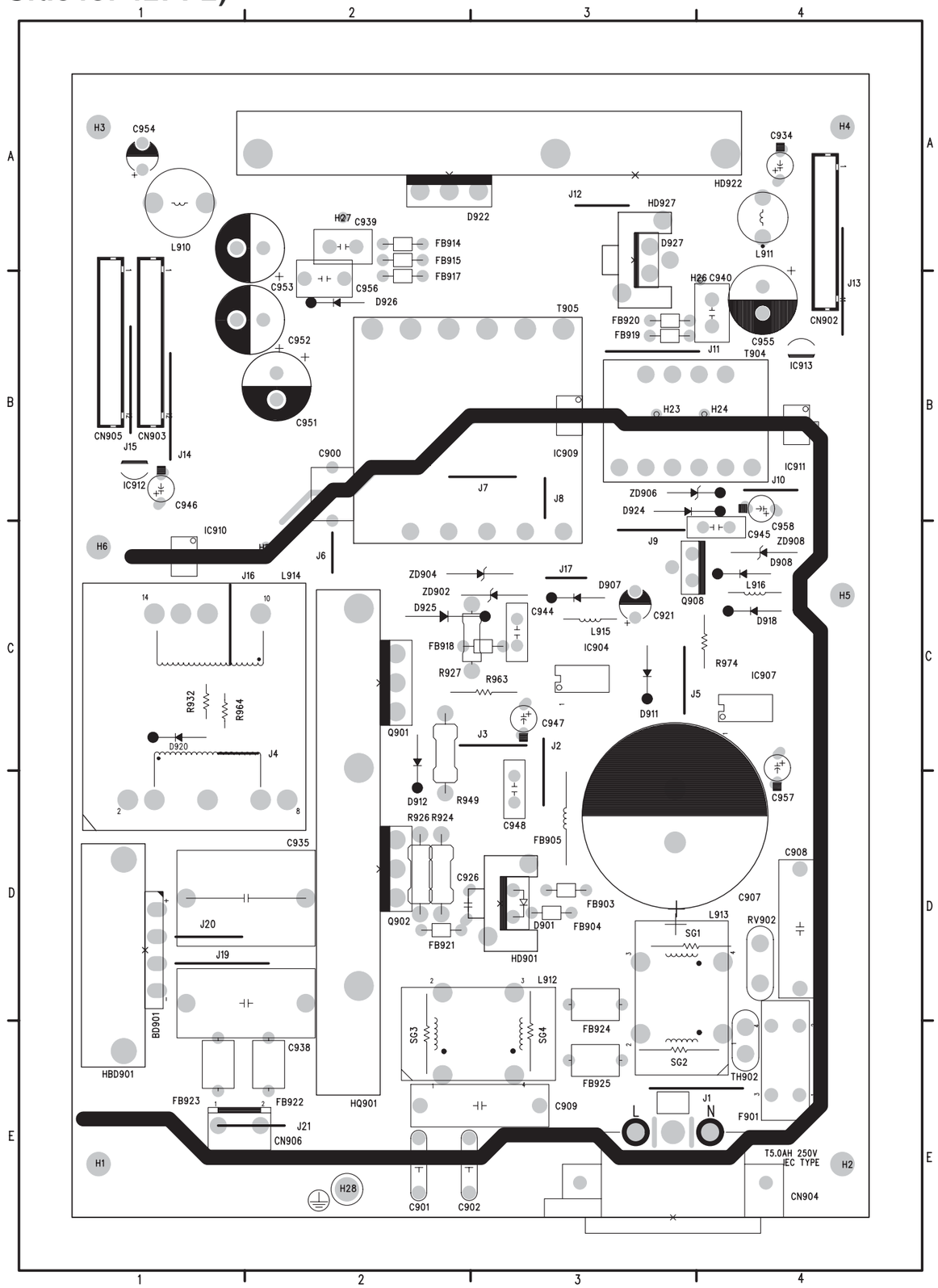


Power Board Layout(Bottom Side for 47PFL)



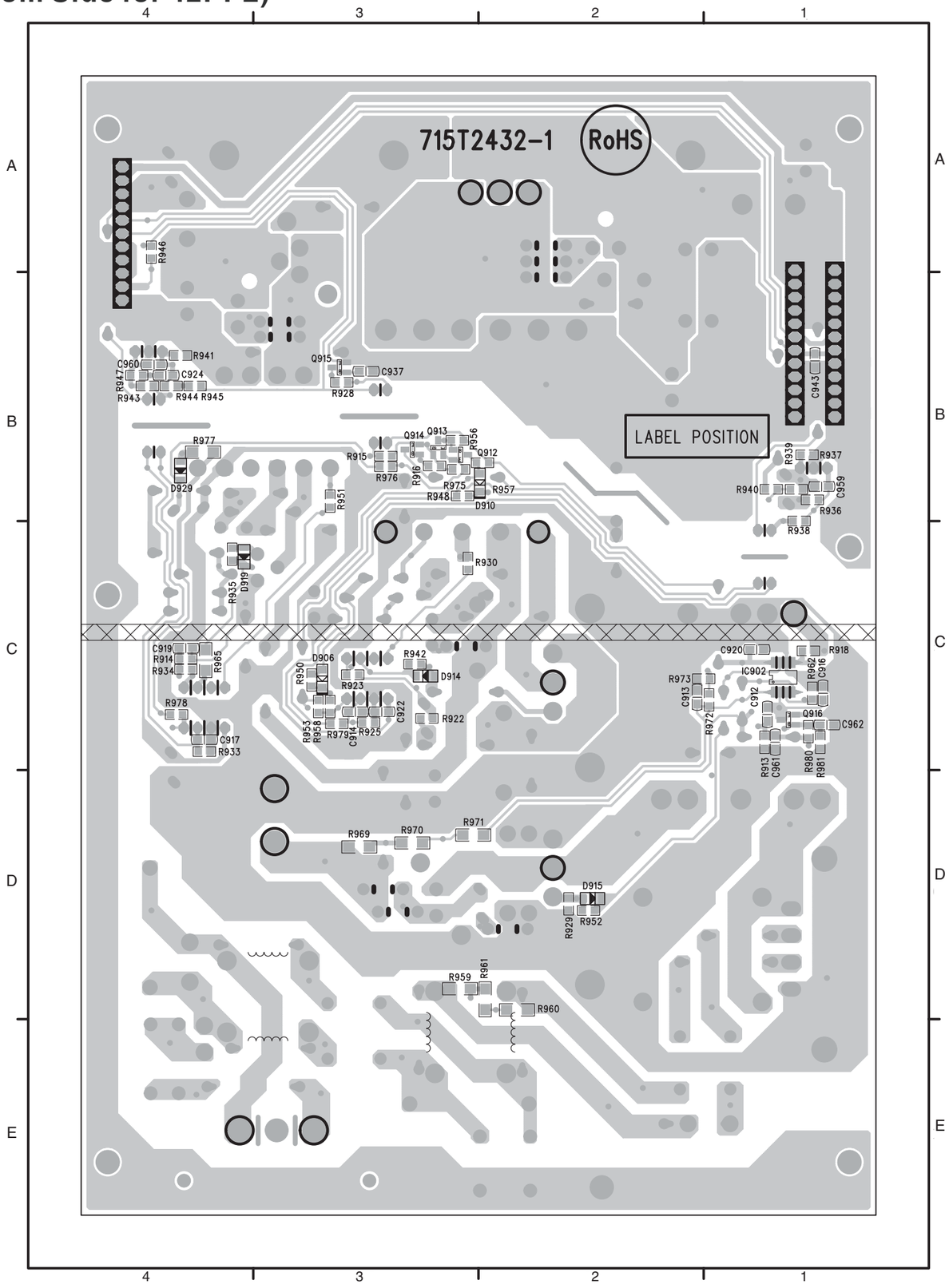
C912 C1
C913 C2
C914 C3
C915 C1
C916 C1
C917 C4
C918 C1
C919 C4
C920 C1
C922 C3
C923 B1
C924 B4
C937 B3
C943 B1
C961 B2
C962 B4
D906 C3
D910 B3
D914 C3
D915 D2
D919 C4
D929 B4
IC902 C1
IC914 B2
Q912 B3
Q913 B3
Q914 B3
Q915 B3
Q916 C1
R913 C1
R914 C4
R915 B3
R916 B3
R918 C1
R922 C3
R923 C3
R925 C3
R927 B3
R928 B3
R929 D2
R930 C3
R931 B2
R933 C4
R934 C4
R935 C4
R936 B2
R937 B2
R939 B2
R940 B1
R941 B4
R942 C3
R943 B4
R944 B4
R945 B4
R946 B3
R947 B4
R948 B1
R950 C3
R951 B3
R952 D2
R953 C3
R956 B3
R957 B3
R958 C3
R959 E2
R960 E2
R961 E2
R962 C1
R965 C4
R969 D3
R970 D3
R971 D3
R972 C2
R973 C2
R975 B3
R976 B3
R977 B4
R978 C4
R980 C3
R981 C2
R982 B2
R984 C1
R985 C1
R986 C1
R987 C3

Power Board Layout(Top Side for 42PFL)



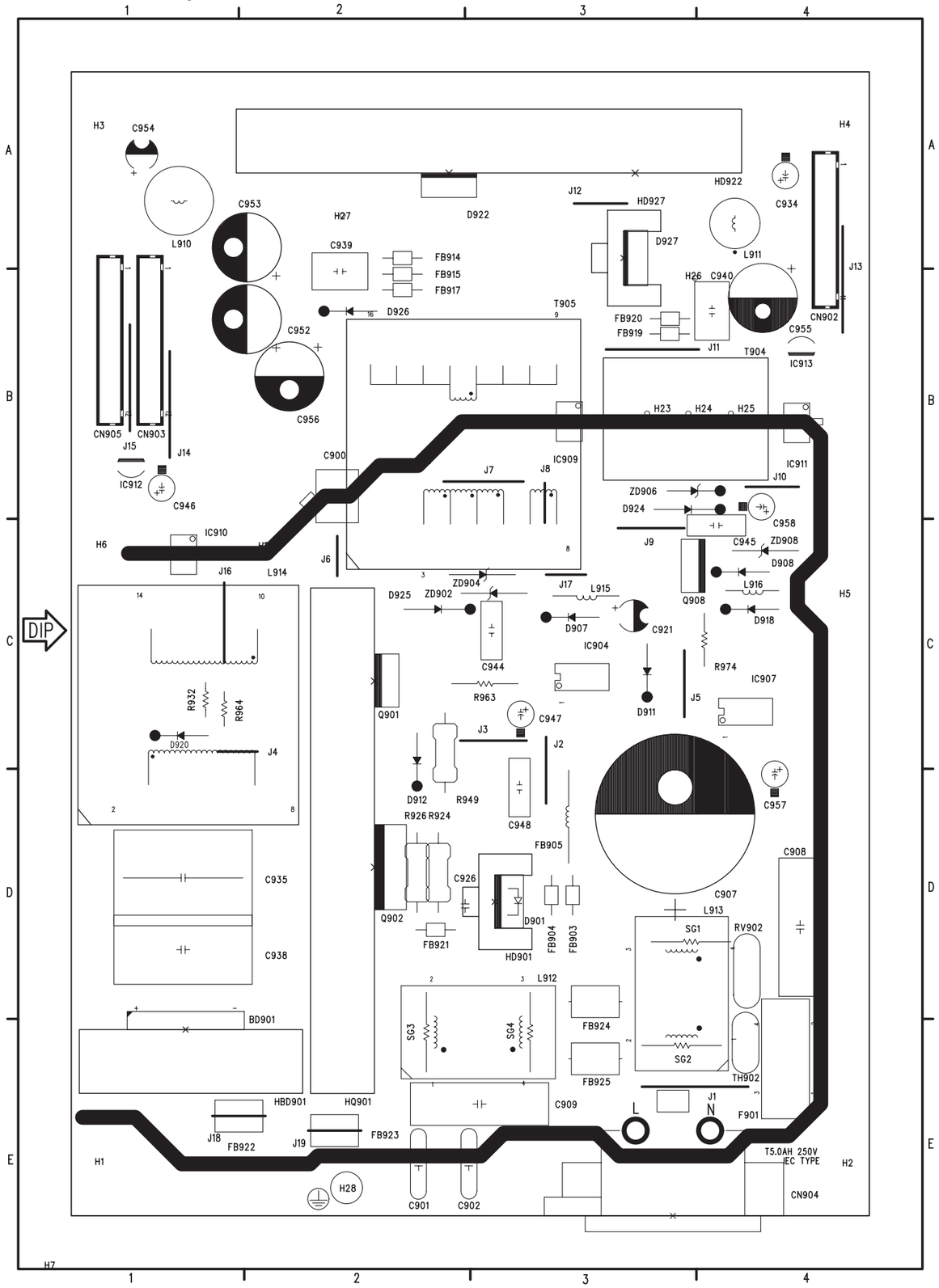
BD901	D1
C900	B2
C901	E2
C902	E2
C907	D3
C908	D4
C909	E3
C921	C3
C926	D2
C934	A4
C935	D2
C938	D2
C939	A2
C940	B4
C944	C3
C945	C4
C946	B1
C947	C3
C948	D3
C951	B2
C952	B2
C953	A2
C954	A1
C955	B4
C956	B2
C957	C4
C958	B4
CN902	A4
CN903	A1
CN904	E3
CN905	A1
CN906	E1
D901	D3
D907	C3
D908	C4
D911	C3
D912	D2
D918	C4
D920	C1
D922	A2
D924	B4
D925	C3
D926	B2
D927	A3
F901	E4
FB903	D3
FB904	D3
FB905	D3
FB914	A2
FB915	A2
FB917	B2
FB918	C3
FB919	B3
FB920	B3
FB921	D2
FB922	E2
FB923	E1
FB924	D3
FB925	E3
HBD901	D1
HD901	D3
HD922	A3
HD927	A3
HQ901	D2
IC904	C3
IC907	C4
IC909	B3
IC910	C1
IC911	B4
IC912	B1
IC913	B4
L910	A1
L911	A4
L912	E3
L913	D3
L914	C1
L915	C3
L916	C4
Q901	C2
Q902	D2
Q908	C3
R924	D2
R926	D2
R927	C3
R932	C1
R949	C2
R963	C3
R964	C1
R974	C4
RV902	D4
T904	B3
T905	B2
TH902	E4
ZD902	C2
ZD904	C3
ZD906	B4
ZD908	C4

Power Board Layout(Bottom Side for 42PFL)



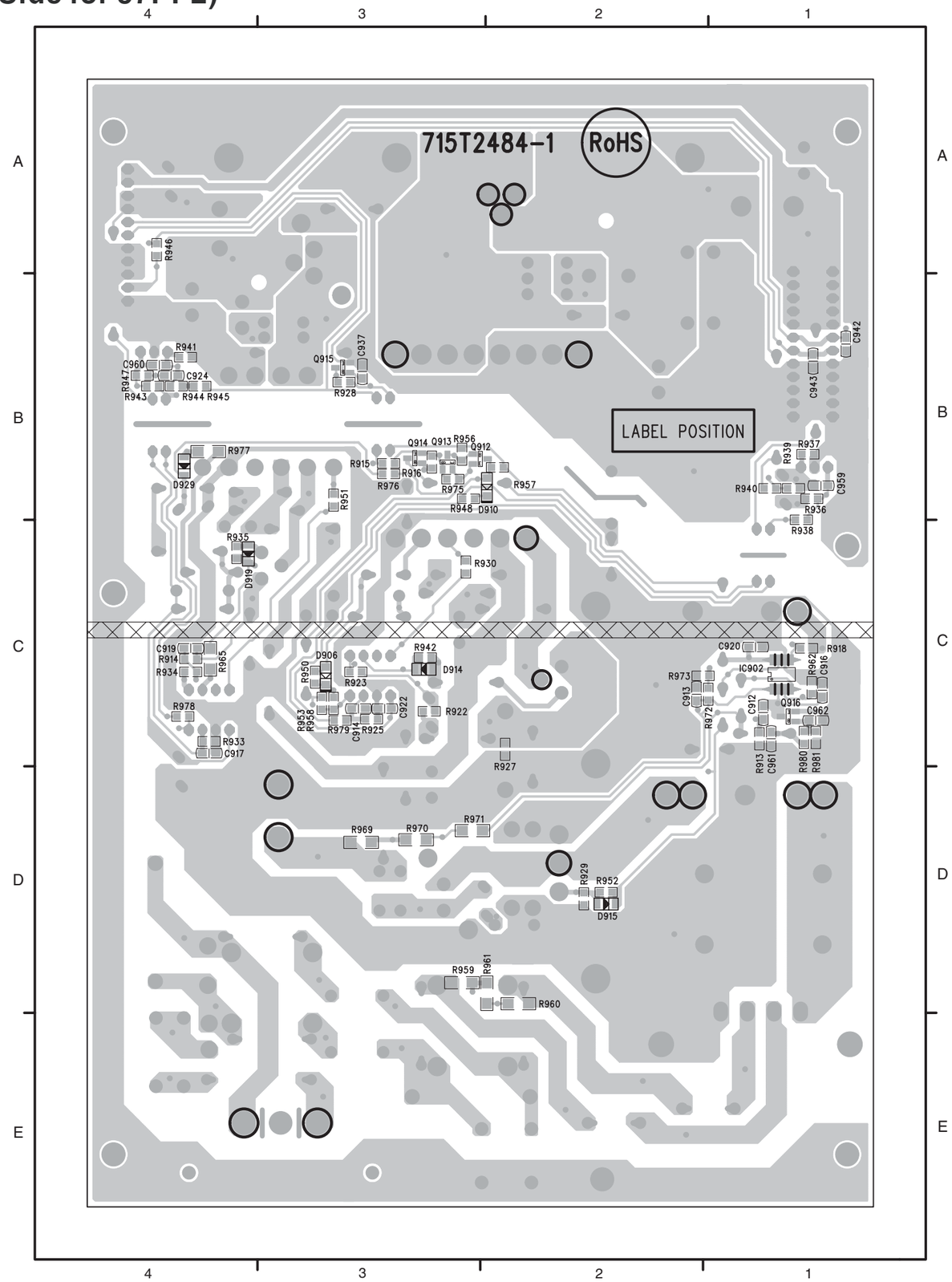
C912 C1
C913 C2
C914 C3
C916 C1
C917 C4
C919 C4
C920 C1
C922 C3
C924 B4
C937 B3
C943 B1
C959 B1
C960 B4
C961 C1
C962 C1
D906 C3
D910 B2
D914 C3
D915 D2
D919 C4
D929 B4
IC902 C1
Q912 B3
Q913 B3
Q914 B3
Q915 B3
Q916 C1
R913 C1
R914 C4
R915 B3
R916 B3
R918 C1
R922 C3
R923 C3
R925 C3
R928 B3
R929 D2
R930 C3
R933 C4
R934 C4
R935 C4
R936 B1
R937 B1
R938 B1
R939 B1
R940 B1
R941 B4
R942 C3
R943 B4
R944 B4
R945 B4
R946 A4
R947 B4
R948 B3
R950 C3
R951 B3
R952 D2
R953 C3
R956 B3
R957 B2
R958 C3
R959 D3
R960 D2
R961 D2
R962 C1
R965 C4
R969 D3
R970 D3
R971 D3
R972 C1
R973 C2
R975 B3
R976 B3
R977 B4
R978 C4
R979 C3
R980 C1
R981 C1

Power Board Layout(Top Side for 37PFL)



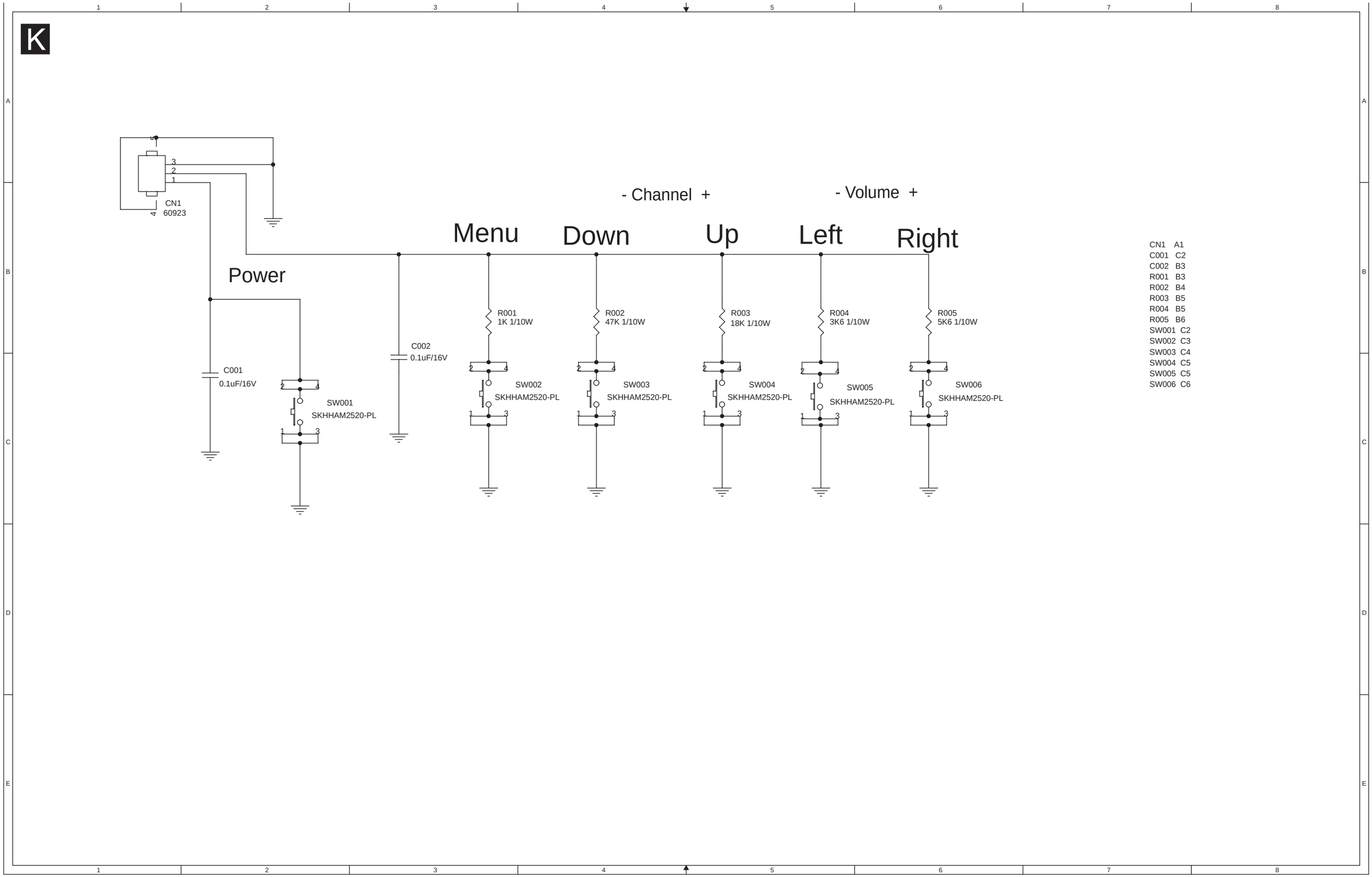
BD901	D1	FB915	B2
C900	B2	FB917	B2
C901	E2	FB919	B3
C902	E2	FB920	B3
C907	D3	FB921	D2
C908	D4	FB922	E2
C909	E3	FB923	E2
C921	C3	FB924	D3
C926	D2	FB925	E3
C934	A4	HBD901	E1
C935	D1	HD901	D3
C938	D1	HD922	A3
C939	B2	HD927	A3
C940	B4	HQ901	D2
C944	C3	IC904	C3
C945	C4	IC907	C4
C946	B1	IC909	B3
C947	C3	IC910	C1
C948	D3	IC911	B4
C952	B2	IC912	B1
C953	A2	IC913	B4
C954	A1	L910	A1
C955	B4	L911	A4
C956	B2	L912	E3
C957	D4	L913	D3
C958	B4	L914	C1
CN902	A4	L915	C3
CN903	A1	L916	C4
CN904	E3	Q901	C2
CN905	A1	Q902	D2
D901	D3	Q908	C3
D907	C3	R924	D2
D908	C4	R926	D2
D911	C3	R932	C1
D912	D2	R949	C2
D918	C4	R963	C3
D920	C1	R964	C1
D922	A2	R974	C4
D924	B4	RV902	D4
D925	C3	T904	B3
D926	B2	T905	B2
D927	A3	TH902	E4
F901	E4	ZD902	C2
FB903	D3	ZD904	C3
FB904	D3	ZD906	B4
FB905	D3	ZD908	C4
FB914	A2		

Power Board Layout(Bottom Side for 37PFL)



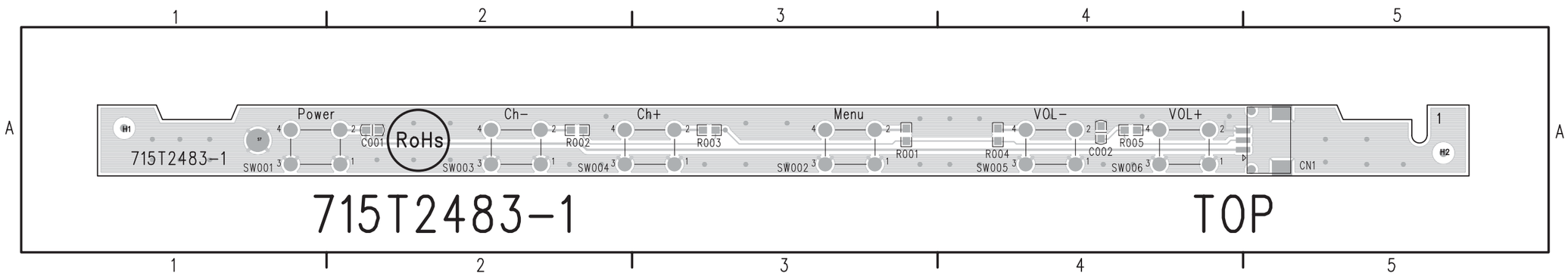
C912	C1	R933	C4
C913	C2	R934	C4
C914	C3	R935	C4
C916	C1	R936	B1
C917	C4	R937	B1
C919	C4	R938	B1
C920	C1	R939	B1
C922	C3	R940	B1
C924	B4	R941	B4
C937	B3	R942	C3
C942	B1	R943	B4
C943	B1	R944	B4
C959	B1	R945	B4
C960	B4	R946	A4
C961	C1	R947	B4
C962	C1	R948	B3
D906	C3	R950	C3
D910	B2	R951	B3
D914	C3	R952	D2
D915	D2	R953	C3
D919	C4	R956	B3
D929	B4	R957	B2
IC902	C1	R958	C3
Q912	B3	R959	D3
Q913	B3	R960	D2
Q914	B3	R961	D2
Q915	B3	R962	C1
Q916	C1	R965	C4
R913	C1	R969	D3
R914	C4	R970	D3
R915	B3	R971	D3
R916	B3	R972	C1
R918	C1	R973	C2
R922	C3	R975	B3
R923	C3	R976	B3
R925	C3	R977	B4
R927	C2	R978	C4
R928	B3	R979	C3
R929	D2	R980	C1
R930	C3	R981	C1

Key Board Schematic Diagram



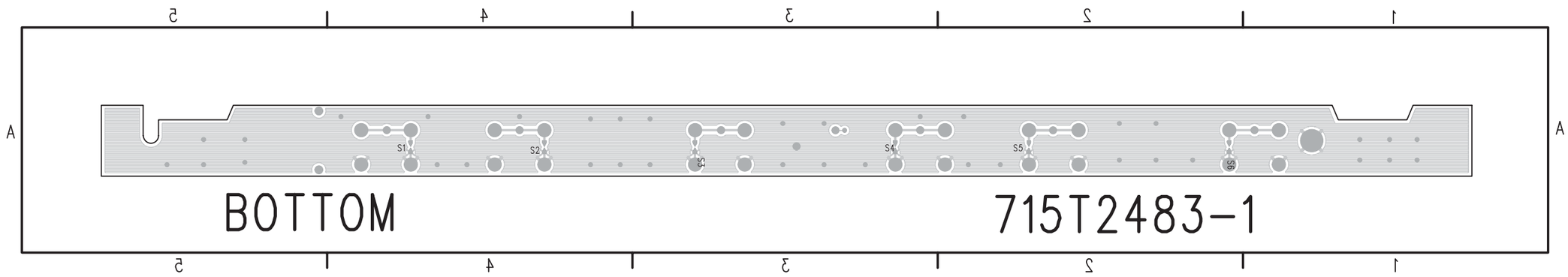
CN1 A1
C001 C2
C002 B3
R001 B3
R002 B4
R003 B5
R004 B5
R005 B6
SW001 C2
SW002 C3
SW003 C4
SW004 C5
SW005 C5
SW006 C6

Key Board Layout(Top Side)

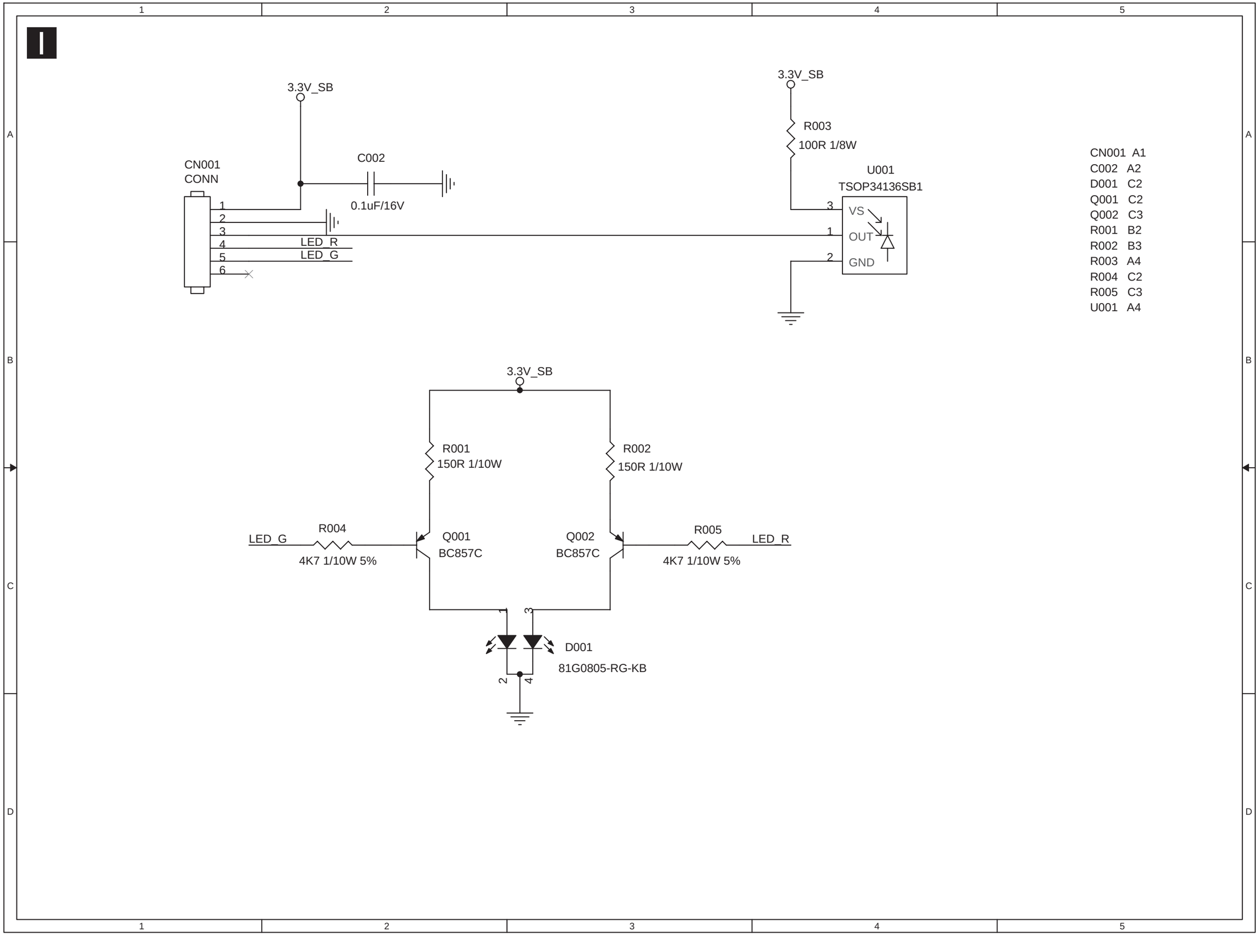


C001	A2	SW001	A1
C002	A4	SW002	A3
R001	A3	SW003	A2
R002	A2	SW004	A3
R003	A3	SW005	A4
R004	A4	SW006	A4
R005	A4	CN1	A5

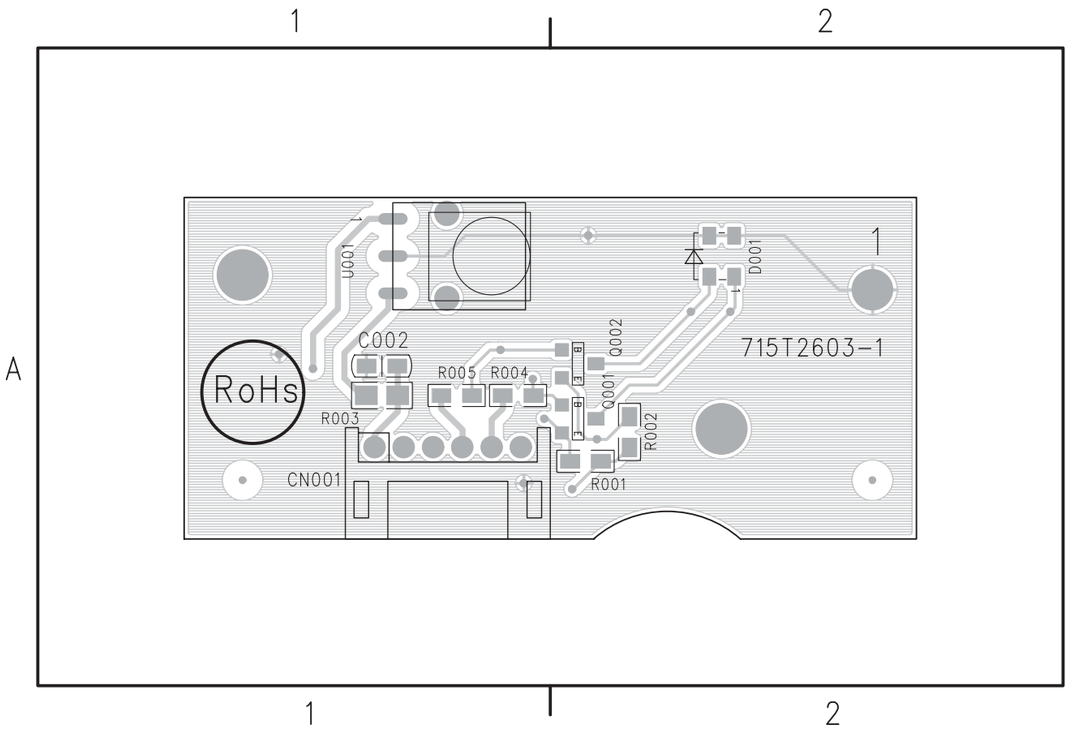
Key Board Layout(Bottom Side)



IR Board Schematic Diagram

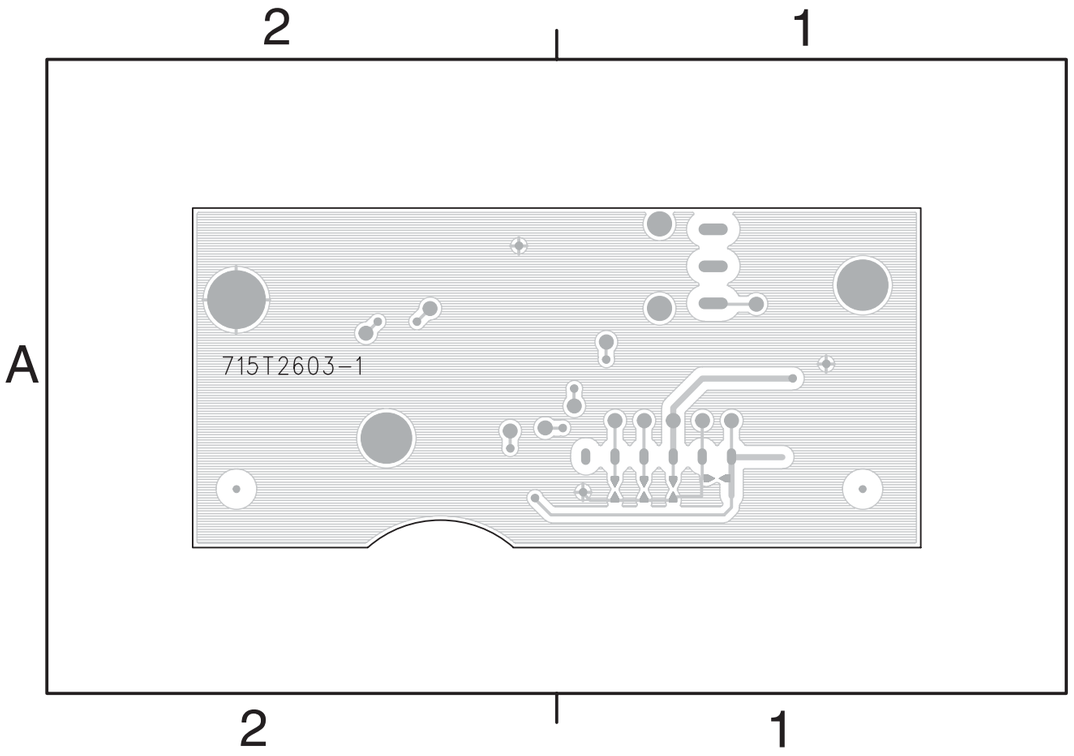


IR Board Layout(Top Side)

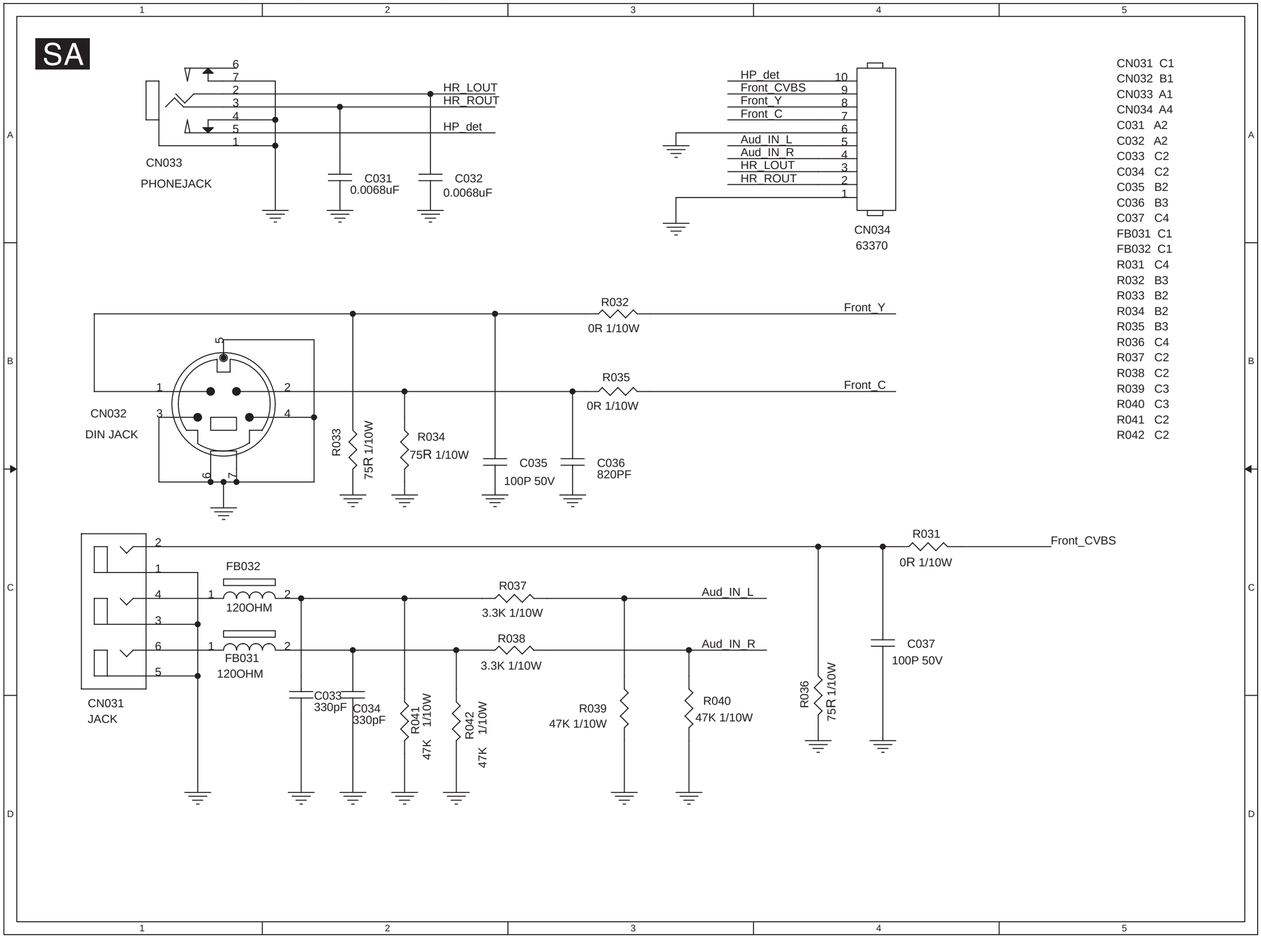


C002 A1
CN001 A1
D001 A2
Q001 A2
Q002 A2
R001 A2
R002 A2
R003 A1
R004 A1
R005 A1
U001 A1

IR Board Layout(Bottom Side)



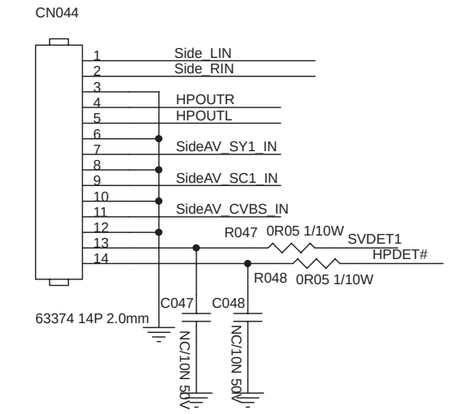
Side AV Board Schematic Diagram(for 47&42PFL)

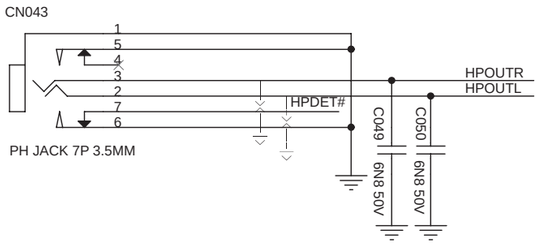


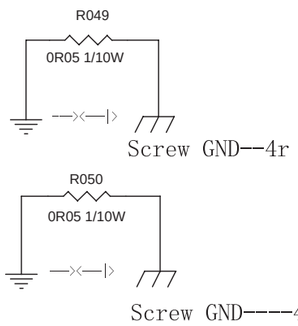
CN031 C1
CN032 B1
CN033 A1
CN034 A4
C031 A2
C032 A2
C033 C2
C034 C2
C035 B2
C036 B3
C037 C4
FB031 C1
FB032 C1
R031 C4
R032 B3
R033 B2
R034 B2
R035 B3
R036 C4
R037 C2
R038 C2
R039 C3
R040 C3
R041 C2
R042 C2

Side AV Board Schematic Diagram(for 37PFL)

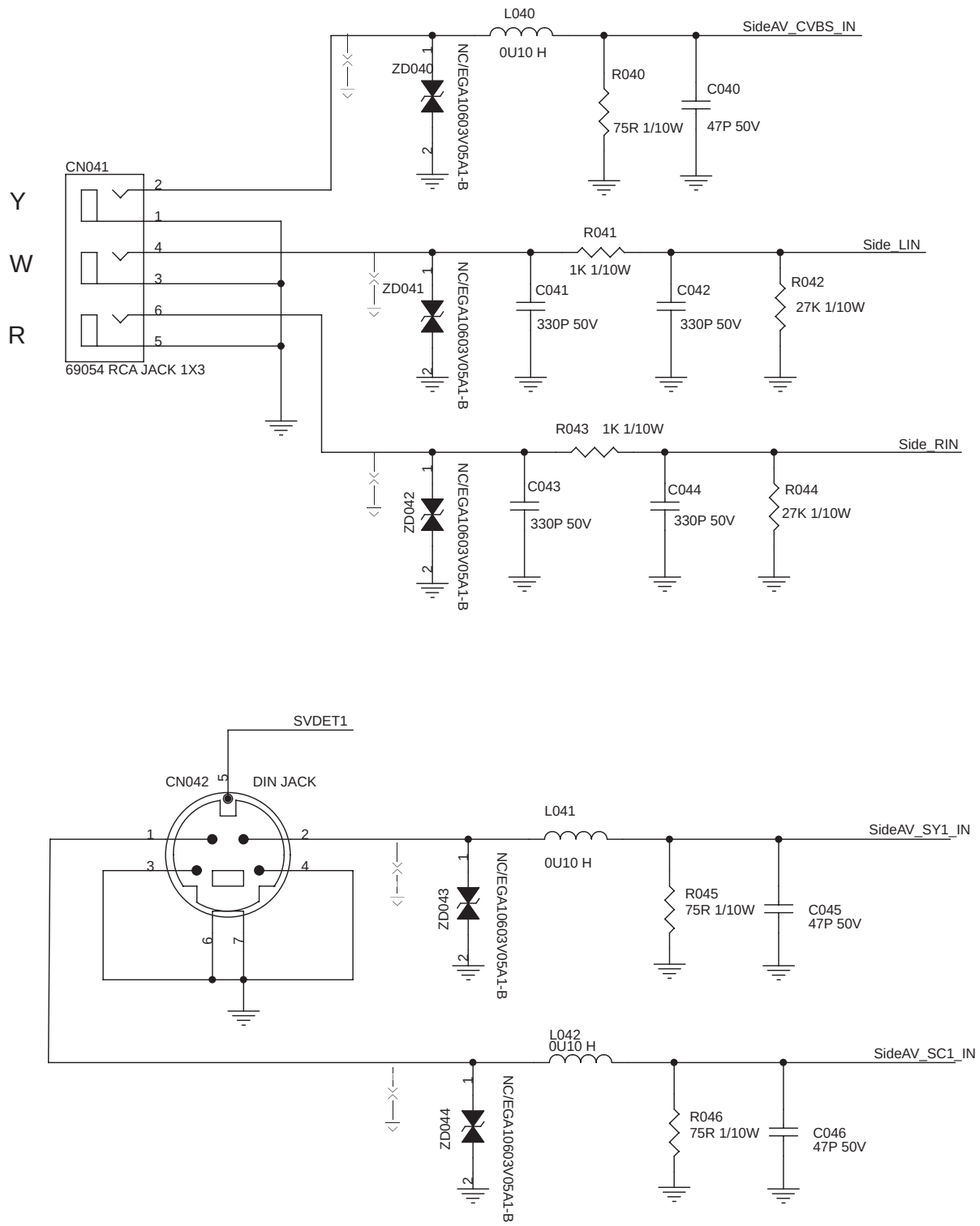
SA







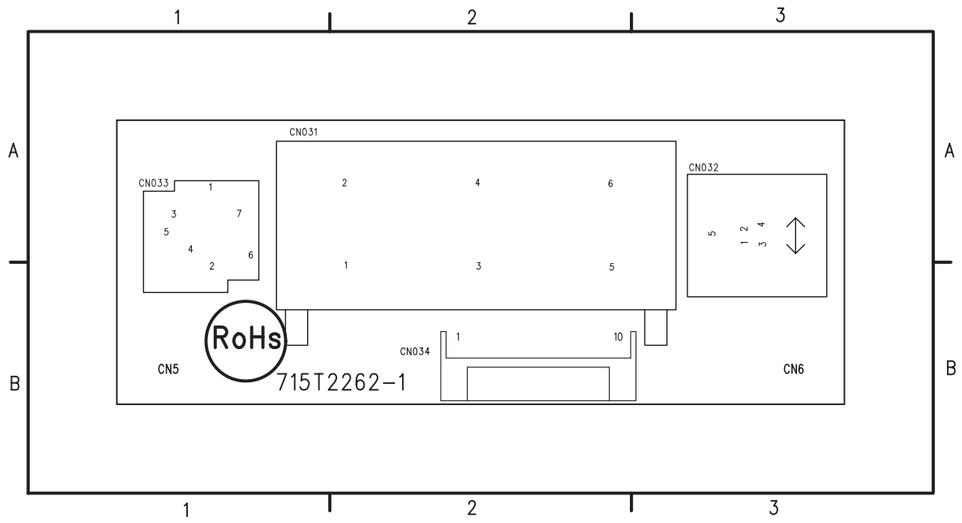
differ with 715T2406 R049 and R050



CN041 A4
CN042 C4
CN043 C1
CN044 A1
C040 A6
C041 B5
C042 B6
C043 B5
C044 B6
C045 D6
C046 D6
C047 B2
C048 B2
C049 C2
C050 C2
L040 A5
L041 C5
L042 D5
R040 A5
R041 A5
R042 B6
R043 B5
R044 B6
R045 D6
R046 D6
R047 B2
R048 B2
R049 D2
R050 D2
ZD040 A5
ZD041 B5
ZD042 B5
ZD043 D5
ZD044 D5

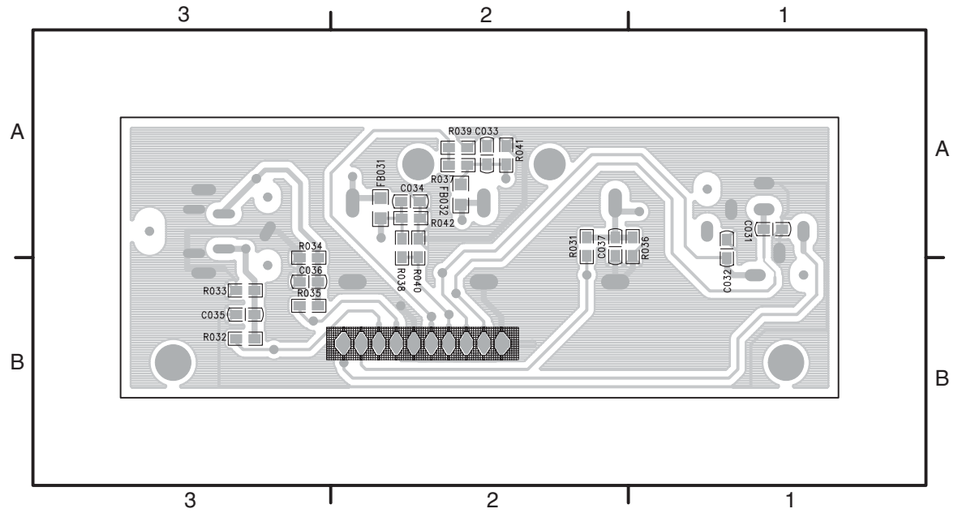
This item form:040~059

Side AV Board Layout(Top Side for 47&42PFL)



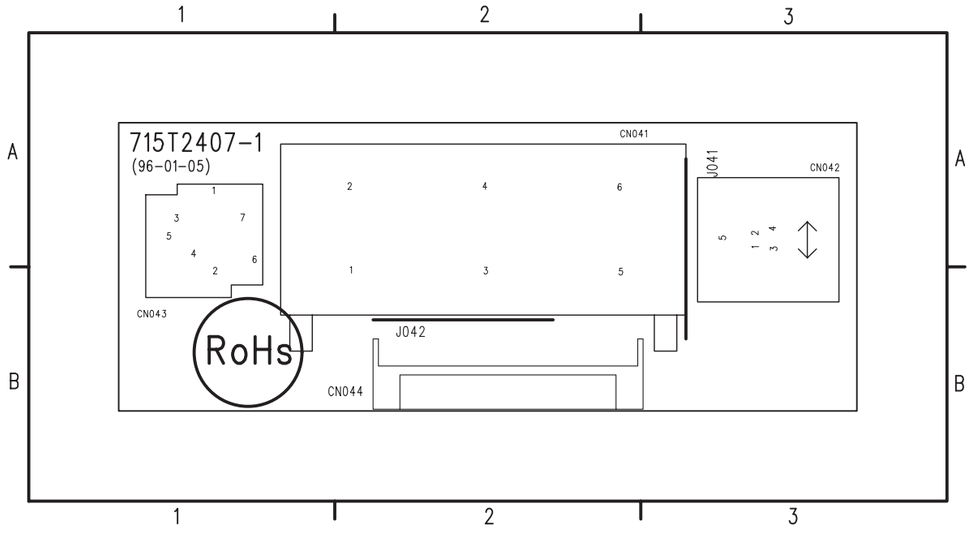
CN031 A2
CN032 A3
CN033 A1
CN034 B2

Side AV Board Layout(Bottom Side for 47&42PFL)



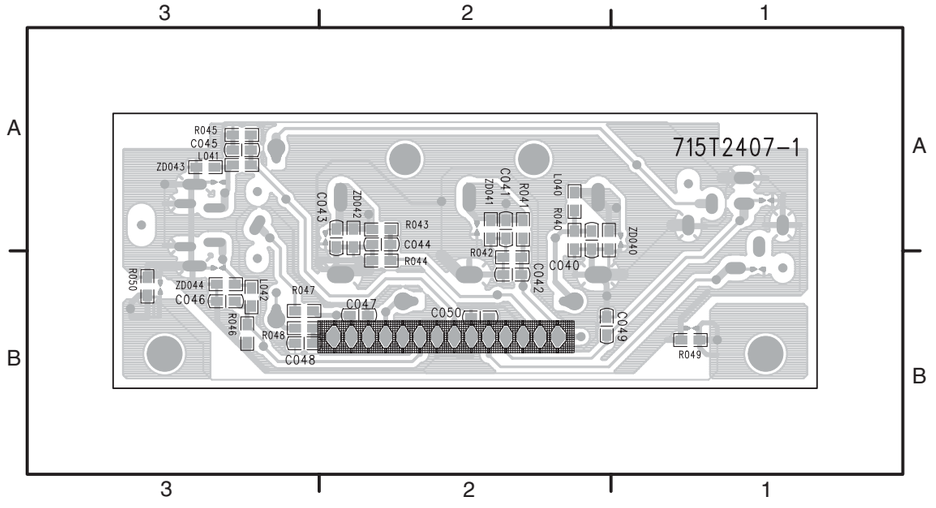
C031 A1
C032 A1
C033 A2
C034 A2
C035 B3
C036 B3
C037 A2
FB031 A2
FB032 A2
R031 A2
R032 B3
R033 B3
R034 A3
R035 B3
R036 A1
R037 A2
R038 A2
R039 A2
R040 A2
R041 A2
R042 A2

Side AV Board Layout(Top Side for 37PFL)



CN041 A2
CN042 A3
CN043 A1
CN044 B2
J041 B3
J042 B2

Side AV Board Layout(Bottom Side for 37PFL)



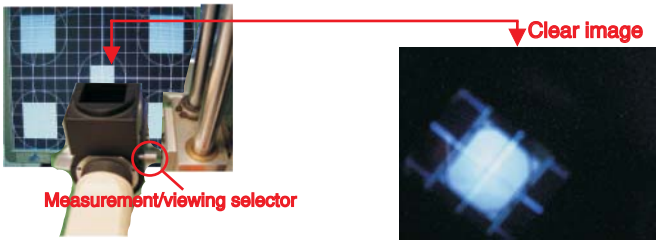
C040 A2 R041 A2
C041 A2 R042 B2
C042 B2 R043 A2
C043 A2 R044 B2
C044 A2 R045 A3
C045 A3 R046 B3
C046 B3 R047 B3
C047 B2 R048 B3
C048 B3 R049 B1
C049 B2 R050 B3
C050 B2 ZD040 A2
L040 A2 ZD041 A2
L041 A3 ZD042 A2
L042 B3 ZD043 A3
R040 A2 ZD044 B3

8. Alignments

Index of this chapter:
8.1 Electrical Instructions
8.2 Software Updrate With ISPWriter
8.3 Serial Number Definition

Notes: You could adjust the LCD/TV following this chapter when the LCD/TV has the below defect.
1. Change panel. 2. Change or repair main board. 3. LCD/TV color is not right. 4. The settings are disabled.

8.1 Electrical Instructions



8.1.1 TV Mode display adjust

White balance adjustment (B)

General set-up:
Equipment Requirements: Color analyzer.
Input requirements:
Input Signal Type: RF signal
Set to PAL D/K system, frequency=184.25MHz with white pattern of 100%

Input Signal Strength : 10mV (80 dBuV) terminal voltage.
Input Injection Point : TV Tuner input

Color Temp Alignment (B)
Apply full white pattern, select smart setting to be RICH. Adjusting Cool SCALER GAIN RG B to reach W/D and luminance in factory mode
Adjust Cool R, G, B in factory OSD. The 1931 CIE chromaticity (X, Y) co-ordinates shall be:
Table 1. Reading with Minolta CA-210.

Picture Mode	x	y
Normal (Original)	0.274 ± 0.005	0.279± 0.005

Luminance > 400 cd/m^2 in the center of the screen when both contrast and brightness are 100%.
Set color temp is "WARM" or "NORMAL", their gains are as table 2.They should be saved in EEPROM by the auto-alignment station of factory.
Table 2. relationship between three kinds of color temp

	COOL	NORMAI	WARM
Scaler R Gain	R'	R'	R'
Scaler G Gain	G'	G'	G'-5
Scaler B Gain	B'	B'-8	B'-27

If you have not CA-210, the following R,G and B values are for your reference.

	COOL	NORMAI	WARM
R	119	119	119
G	119	119	114
B	124	116	97

This group setting about color temp is also applied in TV/HDMI 1/HDMI 2/ CVI 1/CVI 2/ AV/ SideAV/PC. It means that TV/HDMI 1/HDMI 2/ CVI 1/CVI 2/ AV/ SideAV /PC use one same setting.

8.1.2 PC mode Display Adjustment

WHITE-D adjustment

At factory mode apply both 1024X768 @60Hz and 1920x1080/60Hz mode with TVBAR100 pattern in QuantumData 802R/ 802G/802BT as figure 1. . Set smart picture at "Normal" , and set Brightness and contrast to be 50%.

Activate AUTO-COLOR function for auto ADC offset and gain setup.

Figure 1. TVBAR100

Apply full white pattern , check picture must satisfy table 3.

Table 3. Reading with Minolta CA-210.

Picture Mode	x	y
Normal (Original)	0.274± 0.015	0.279± 0.015

Luminance> 400 cd/m^2 in the center of the screen when both PC Brightness and Contrast control are 100%.

Display quality adjustment

Use timing mode and uses the POPO (pixel on pixel off) pattern to adjust the clock until no stripe and adjust the phase until clear picture.

(AUTO ADJUST hot key: press Volume - and Volume + keys together for 1 second.)
Check all preset 6 modes.

Check the analog interface cable

Check the color poor & noise condition of 64 gray scale pattern.

8.1.3 Comp Mode display adjust

White-D adjustment

General set-up:
Equipment : Quantum Data Pattern Generator 801GD or 802G or 802R;
Apply 1080i/50Hz, and the pattern TVBAR100 is shown in figure 1.

For1080P, the auto-color value is preloaded in EEPROM as table 4.

Table 9. 1080P auto-color setting.

R agin	G gain	B gain	R offset	G offset	B offset
128	200	128	128	98	128

Alignment method:
Initial Set-up : Set Smart picture as "Personal" (Brightness=50, Color=50, Contrast=50);
Access to factory OSD first, then to enable AUTO-COLOR to get Comp ADC OFFSET and Comp ADC GAIN. Check 64 gray scales can be distinguishable.

Color Temp Alignments : Check chromaticity (X, Y) co-ordinates specification as table7. Luminance> 400 cd/m^2 in the center of the screen in RICH mode.

8.1.4 HDMI mode display adjustment

Preset HDMI HDCP key

Download HDCP Key

The 284 bytes HDCP key has been programmed in LX66.

HDMI Video HDCP Key Test

(1) Use pattern generator

Equipment: Quantum 802R or 802BT or equivalent equipments.
Pattern : Standard HdcpProd Pattern (It's color bar)
Timing : As section 2.5.

Result : The PASS information should be shown on the screen.

(2) Use DVD Player:

Equipment: 1.Pioneer (model: DV-S969AVi) or equivalent equipments.
2.DVD disk with " Macro Vision " protection.

Result : The picture should be shown Normally.

8.2 Software Updrate With ISPWriter

A. Install

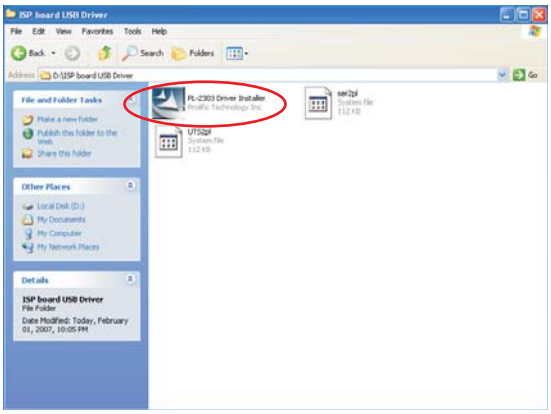
8.2.1 Run SETUP.exe in ISPWriter2 folder

8.2.2 Copy all files in ISP3Writer3 folder to ..\Program Files\Trident\ ISPWriter2

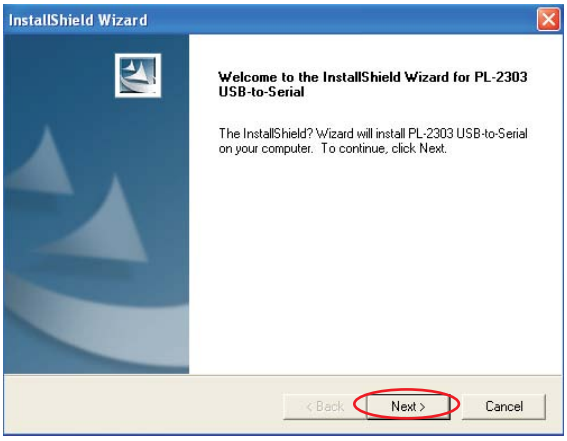
B. Use.

8.2.3 Step

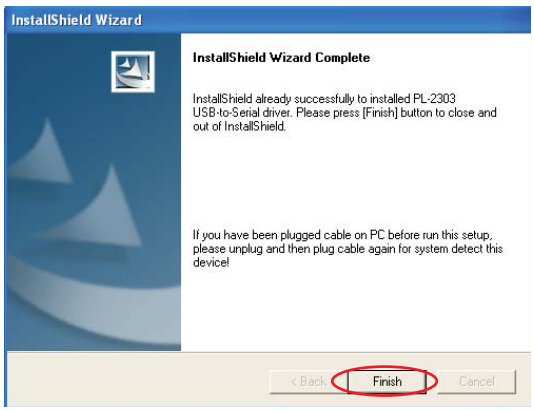
Step 1. Install USB driver to your computer from the ISP board USB Driver file.
ISP board USB Driver Include three files:



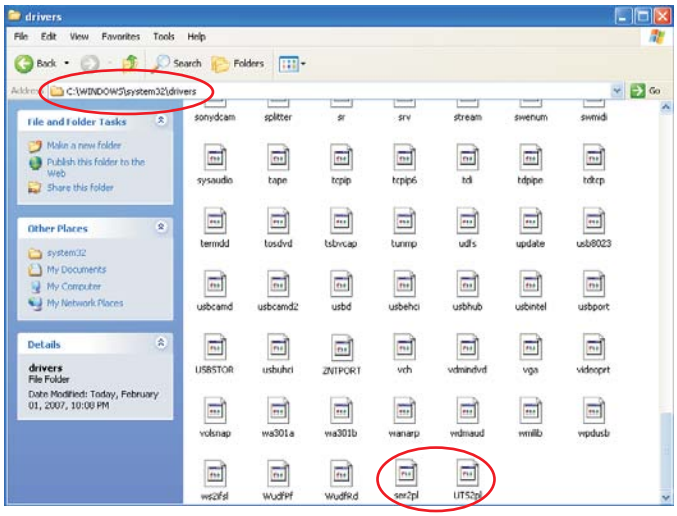
Push "Next".


InstallShield Wizard
Welcome to the InstallShield Wizard for PL-2303 USB-to-Serial
The InstallShield? Wizard will install PL-2303 USB-to-Serial on your computer. To continue, click Next.
< Back
Next >
Cancel

Push "Finish".

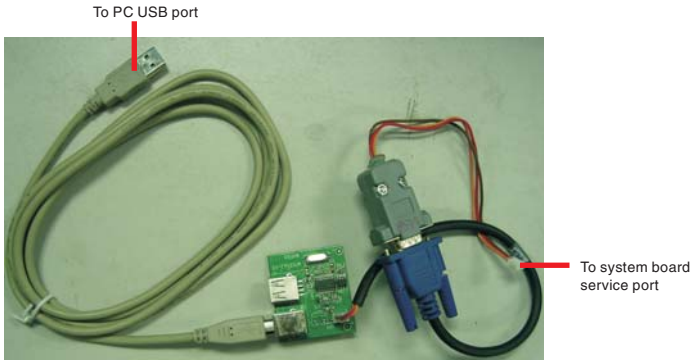

InstallShield Wizard
InstallShield Wizard Complete
InstallShield already successfully to installed PL-2303 USB-to-Serial driver. Please press [Finish] button to close and out of InstallShield.
If you have been plugged cable on PC before run this setup, please unplug and then plug cable again for system detect this device!
< Back
Finish
Cancel

ser2pl.sys & UTS2pl.sys two files should copy to C:\WINDOWS\system32\drivers & replace original files.



Step 2: Connect to ISP Board.

Use USB port connecting PC & MT537x Board via ISP board(Code number: 715G537XL2).



8.2.4 Run ISPWriter3.exe, you will see the below window (Diagram 1).

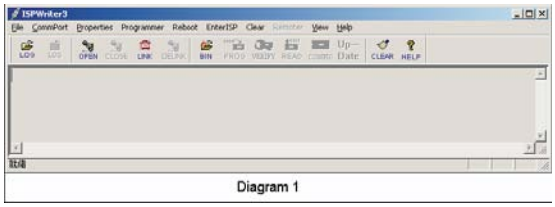


Diagram 1

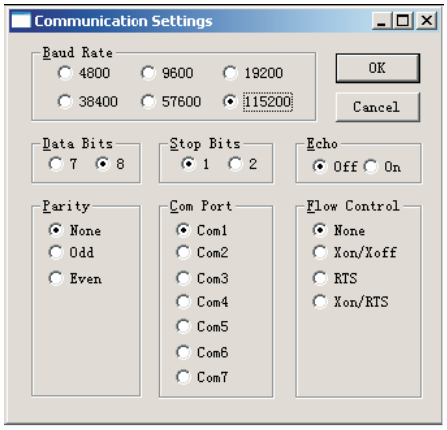


Diagram 2

Press the OPEN button to open the COM port of the PC.
The COM port parameter can be set in Communication Settings Dialog (Diagram 2).
By CommPort->Setting, the Communication Settings Dialog can be opened, if the COM isnot opened.

8.2.5 Press the BIN button to select the bin file which will be programmed into the flash.
The toolbar will be changed as Diagram 3.

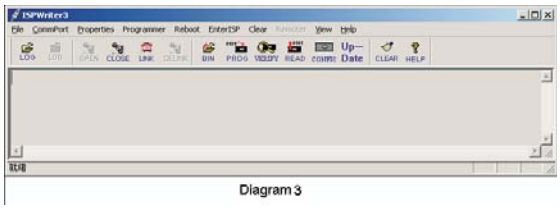


Diagram 3

8.2.5.1 (Configure)
Press the CONFIG button to open the Config Dialog(Diagram 4), in this dialog, please select the correct CPU—Maker—Chip and input or select the correct StartAddress.
These information will be saved into the ISPWriter3.ini file. You can directly edit the ISPWriter3.ini file by editing tool.

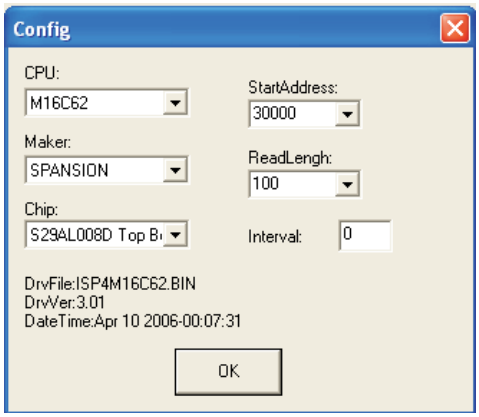


Diagram 4

8.2.6 Enter the ISP mode
You will see some information in the textbox when CPU enters the ISP mode.
Just like below:
PH_ISP_VER003 , Please use ISPWriter3 !!!
ISPWriter3:
UART:115200,n,8,1
Version: 3.01
BuildTime:Apr 19 2006-11:10:51

8.2.6.1
CPU enters ISP mode by hardware way, if PC software (ISPWriter3.exe) does not send any data during 30 seconds, the CPU will leave ISP mode and go on to continue normal boot operation (To run TV application).

8.2.6.2
When the system power-on, if the "Power" key on keypad is pressed and be keep for 3 seconds, the CPU will enter ISP mode and send information by UART.

8.2.7 Program
Press the PROG button to start the programming.

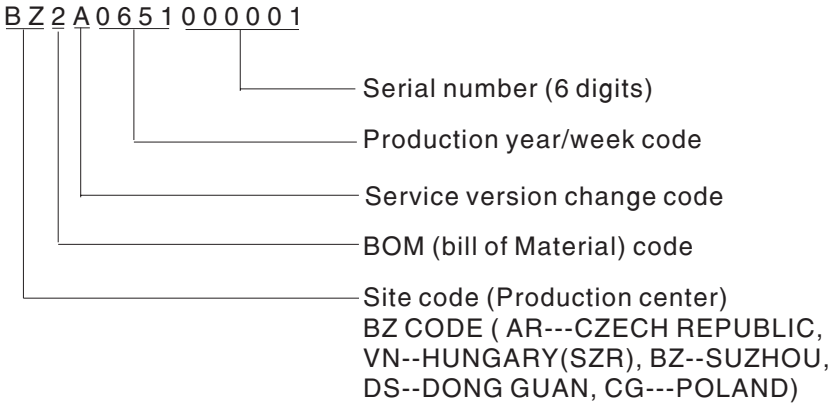
```
PH_ISP_VER_003 , Please use ISPWriter3 !!!
ISPWriter3:
UART:115200,n,8,1
Version: 3.01
BuildTime:Apr 19 2006-11:10:51
CPU :M16C62
CHIP:S29AL008D Bottom Boot
FILE:C:\TA1800\Output\M16C62\PH640K.bin
SIZE:0x0B0000
StartAddr = 05:0000
ISP overflow!
ISP overflow!
ISP overflow!
ISP overflow!
ISP overflow!
ISP overflow!
ISP overflow!
ISP overflow!
ISP overflow!
ISP overflow!
ISP overflow!
```

8.2.8 Reboot
After finish the programming, AC power OFF → ON can reboot the system.

8.3 Serial Number Definition

BOM Code:

PANEL SUPPLIER	CODE
AU	1
CPT	2
LPL(LG)	3
QDI	4
CMO	5
HSD	6
SVA	7



9. Circuit Descriptions, Abbreviations List and IC Data Sheets

Index of this chapter
9.1 Circuit Descriptions
9.2 Abbreviations List
9.3 IC Data Sheets

9.1 Circuit Descriptions

Circuitry Description for 37&42TA2800 model

This LCD-TV PFL7422 use 1920X1080 WUXGA panel .Support PC analog input up to 1920X1080 60Hz mode ,and support NTSC-M 、PAL D/K、PAL B/G、PAL I、SECAM B/G and SECAM D/K(RF), Y/C, CVBS. Also for Y Pb Pr signal input from SDTV to HDTV (480i, 480p, 720p, 1080i ,1080P 60Hz and 576i, 576p, 720p, 1080i, 1080P 50Hz), digital port for HDMI(480iW, 576iW, 480p, 576p, 480pW, 576pW, 720p 50/60Hz, 1080i 50/60Hz, 1080p 50/60Hz.)

.

This F3 platform LCD - TV use Trident LX66 scalar IC , which has embedded ADC for HDTV/Analog D-sub input up to 108MHz/10bit, digital port for HDMI/DVI decoder digital data input , 3D digital comb video decoder for CVBS and Y/C input, TXT decoder and built-in dual 8/10-bit LVDS transmitter scaler .

There are video processing and some audio function in scaler board. The 47/42/37PFL7422 uses Trident SVP-LX66 as Scaler engine, which has embedded Analog D-SUB, digital HDMI receiver, scaling input signal to panel OSD mapping and simple 3D de-interlacer. The extra DDR is to accomplish video frame rate conversion and to provide OSD and de-interlacer with enough memory.

The external CPU (M30620SPGP) can provide control signals such as backlight control, RC (Remote Control), detect keypad input, IIC I/O communication, TV tuning control, sound control and power control .

Embedded Video decoder is used to execute all video signal processing except HDTV. HDTV is go through embedded ADC converter. 3D comb and 3D de-interlacer are included in scaler. Scaler can decode CC, TT, V-chip data to display.

In AP model, Tele-text (TT) function is necessary, but China Model is no need.

One audio decoder MSP34XXG is used for TV sound processing, and output to TPA3100D2PHPR . Post D-class amplifier is in scaler board.

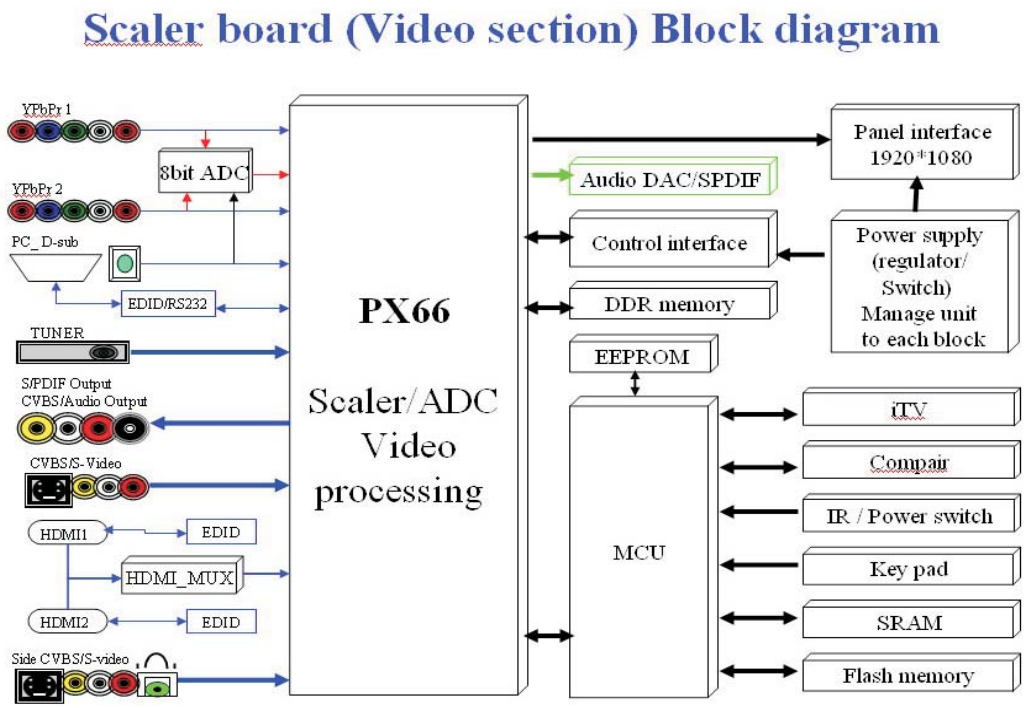


Fig 1 47/42/37PFL7422 Video block diagram

Scaler board (Audio section) Block diagram

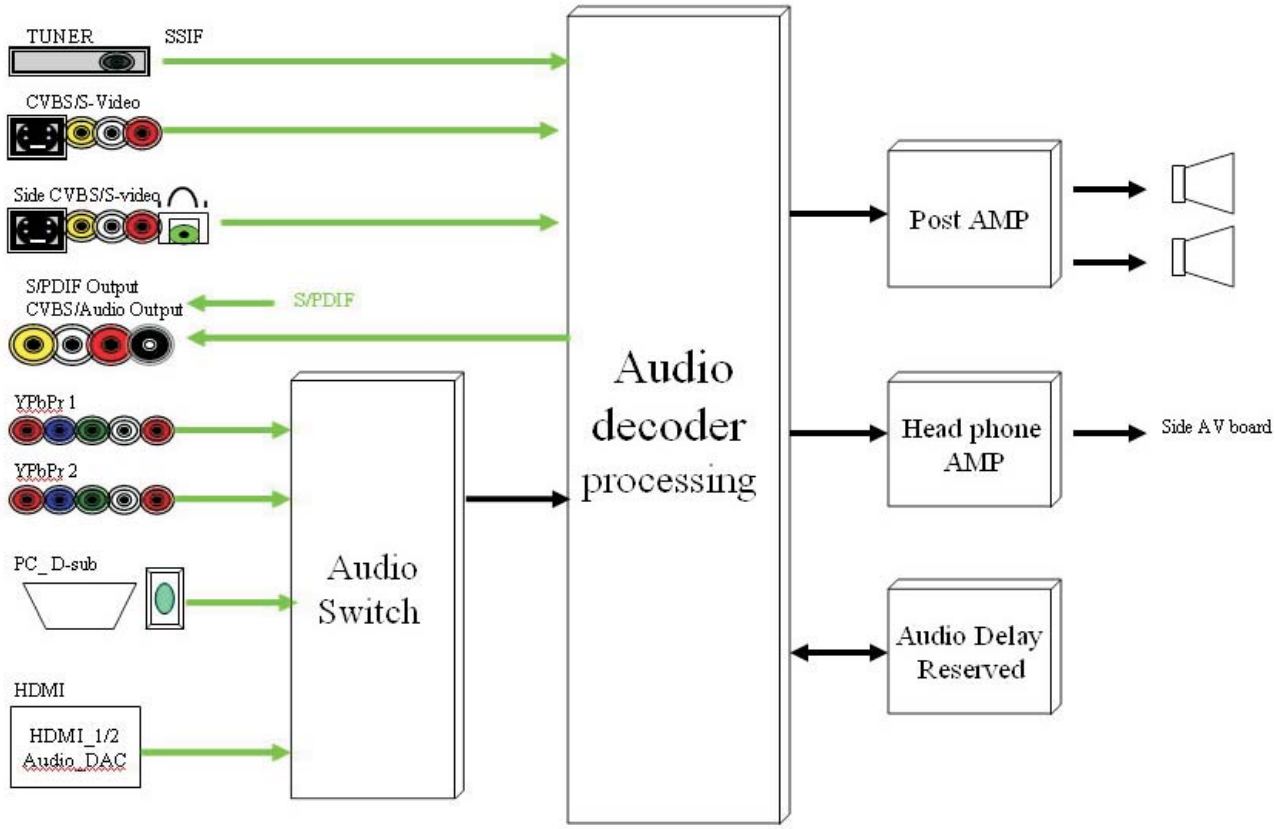


Fig 2 47/42/37PFL7422 Audio block diagram

Description of TV system

A TV tuner with remote control will be mandatory for 93、98 and 79 model.

Tuner and sound decoder deviation:

	79	98	93
Tuner	FQ1216PN/I H-5 94TNPALALL P1	FQ1216ME/IH-5 94VPASEALL P1	FQ1256/I H-5 94T PALBDI 1P
MSP	MSP3450G-QI-B8V3 56T 593504	MSP3410G-QI-B8V3 56G 593901	MSP3410G-QI-B8V3 56G 593901

CSM	Customer Service Mode
ATSC	Advanced Television Systems Committee, the digital TV standard in the USA
DVD	Digital Versatile Disc
EEPROM	Electrically Erasable and Programmable Read Only Memory
3DNR	Temporal (3D) Noise Reduction
AGC	Automatic Gain Control: algorithm that controls the video input of the feature box
FM	Field Memory or Frequency Modulation
AM	Amplitude Modulation
AP	Asia Pacific
ASF	Auto Screen Fit: algorithm that adapts aspect ratio to remove horizontal black bars without discarding video information
ATV	See Auto TV
Auto TV	A hardware and software control system that measures picture content, and adapts image parameters in a dynamic way
AV	External Audio Video
AVIP	Audio Video Input Processor
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz
ComPair	Computer aided rePair
CP	Connected Planet / Copy Protection
CSS	Content Scrambling System; An encryption method for MPEG-2 video on DVDs. The algorithm and keys required to decode the disc are stored on the DVD-player
CVBS	Composite Video Blanking and Synchronization
DFU	Directions For Use: owner's manual
DNR	Digital Noise Reduction: noise reduction feature of the set
DSP	Digital Signal Processing
DST	Dealer Service Tool: special remote control designed for service technicians
DTCP	Digital Transmission Content Protection; A protocol for protecting digital audio/video content that is traversing a high speed serial bus, such as IEEE-1394
DVI(-d)	Digital Visual Interface (d= digital only)
EAS	Emergency Alert Signalling; A cable TV standard (SCTE18) to signal emergency information to digital terminal devices
E-DDC	Enhanced Display Data Channel (VESA standard for communication channel and display). Using E-DDC, the video source can read the EDID information form the display.
EDID	Extended Display Identification Data (VESA standard)
EMI	Electro Magnetic Interference
EMM	Entitlement Management Message
EPLD	Erasable Programmable Logic Device
EU	Europe
FBL	Fast BLanking: DC signal accompanying RGB signals
FDS	Full Dual Screen (same as FDW)
FDW	Full Dual Window (same as FDS)
FLASH	FLASH memory
FTV	Flat TeleVision
H	H_sync to the module
HD	High Definition
HDD	Hard Disk Drive

NTSC	National Television Standard Committee. Color system mainly used in North America and Japan. Color carrier NTSC M/N= 3.579545 MHz, NTSC 4.43= 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non-Volatile Memory: IC containing TV related data such as alignments
OSD	On Screen Display
PLL	Phase Locked Loop. Used for e.g.
LVDS	Low Voltage Differential Signalling
PAL	Phase Alternating Line. Color system mainly used in West Europe (color carrier= 4.433619 MHz) and South America (color carrier PAL M= 3.575612 MHz and PAL N= 3.582056MHz)
PCB	Printed Circuit Board (same as PWB)
PCM	Pulse Code Modulation
PWB	Printed Wiring Board (same as "PCB")
PWM	Pulse Width Modulation
QAM	Quadrature Amplitude Modulation;modulation method
RAM	Random Access Memory
RGB	Red, Green, and Blue. The primary color signals for TV. By mixing levels of R, G, and B, all colors (Y/C) are reproduced.
RC	Remote Control RC5 / RC6 Signal protocol from the remote control receiver
RESET	RESET signal
ROM	Read Only Memory
SAM	Service Alignment Mode
SCART	Syndicat des Constructeurs d'Appareils Radiorecepteurs et Televisieurs
SCL	Serial Clock I2C
SCL-F	CLock Signal on Fast I2C bus
SD	Standard Definition
SDA	Serial Data I2C
SDA-F	DAta Signal on Fast I2C bus
SDI	Serial Digital Interface, see ITU-656
SDRAM	Synchronous DRAM
SECAM	SEequence Couleur Avec Memoire. Color system mainly used in France and East Europe. Color carriers= 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMPS	Switched Mode Power Supply
SOG	Sync On Green
SOPS	Self Oscillating Power Supply
I2C	Integrated IC bus
I2D	Integrated IC Data bus
I2S	Integrated IC Sound bus
IB	In Band channel
IF	Intermediate Frequency
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker.
IR	Infra Red
IRQ	Interrupt Request
LATAM	Latin America
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LPL	LG.Philips LCD (supplier)
MUTE	MUTE Line

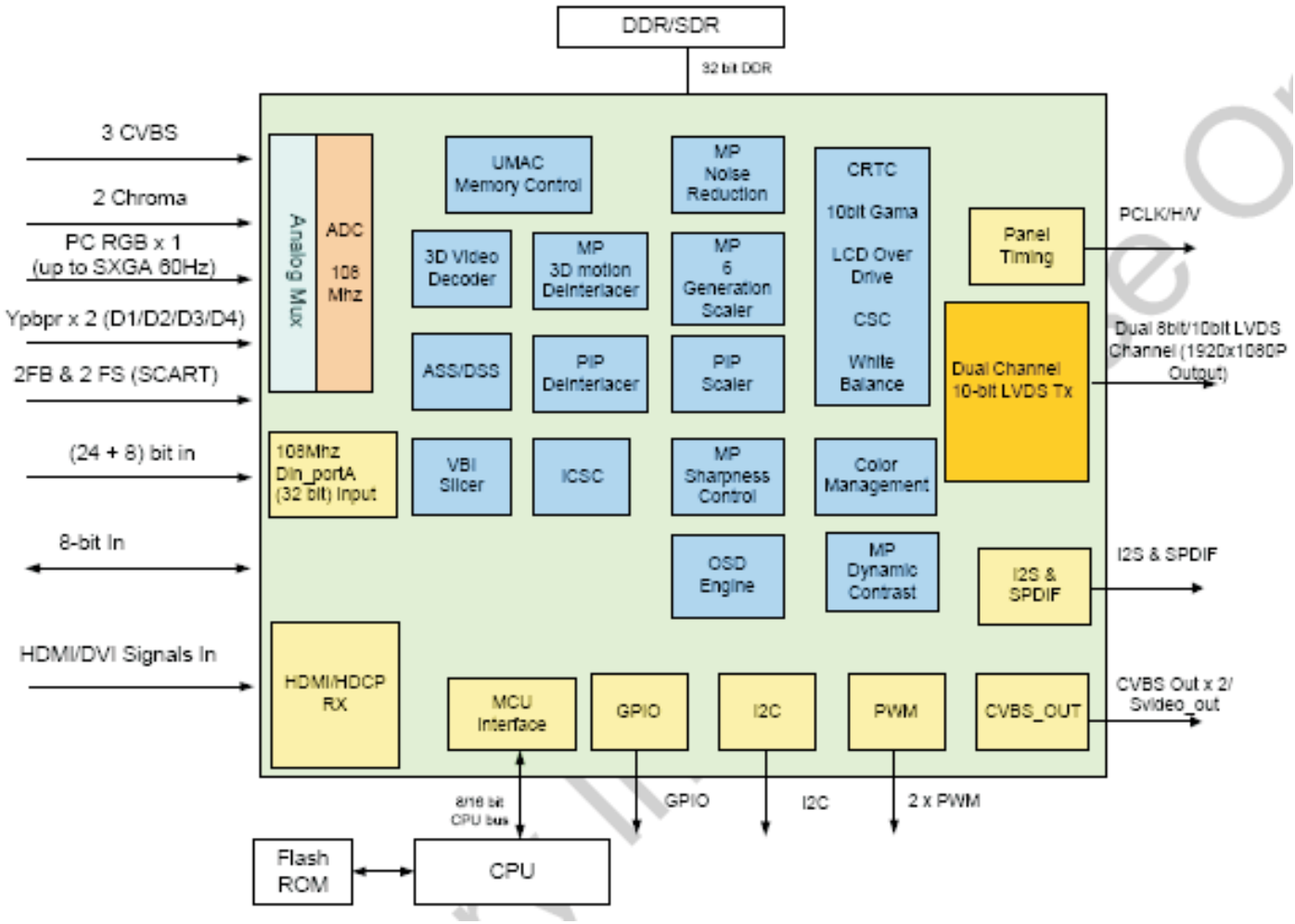
TFT	Thin Film Transistor
SRAM	Static RAM
STBY	STandBY
SOG	Sync On Green
SVGA	800x600 (4:3)
SVHS	Super Video Home System
SW	Software
SWAN	Spatial temporal Weighted Averaging Noise reduction
SXGA	1280x1024
TMDS	Transmission Minimized Differential Signalling
UXGA	1600x1200 (4:3)
V	V-sync to the module
VCR	Video Cassette Recorder
VESA	Video Electronics Standards Association
VGA	640x480 (4:3)
VL	Variable Level out: processed audio output toward external amplifier
VSB	Vestigial Side Band; modulation method
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
WXGA	1280x768 (15:9)
XGA	1024x768 (4:3)
Y	Luminance signal
YPbPr	Component video. Luminance and scaled color difference signals (B-Y and R-Y)

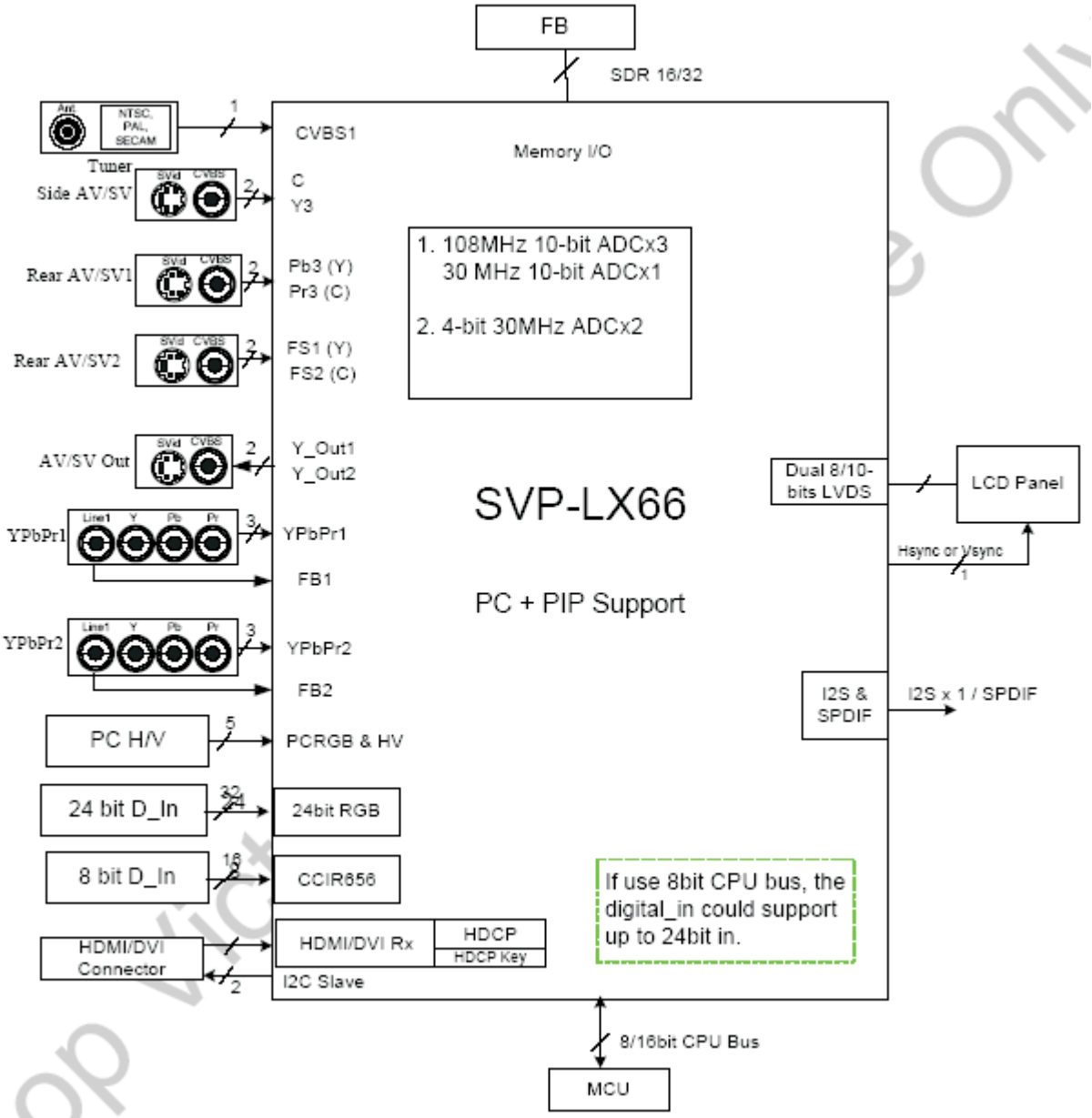
9.3 IC Data Sheets

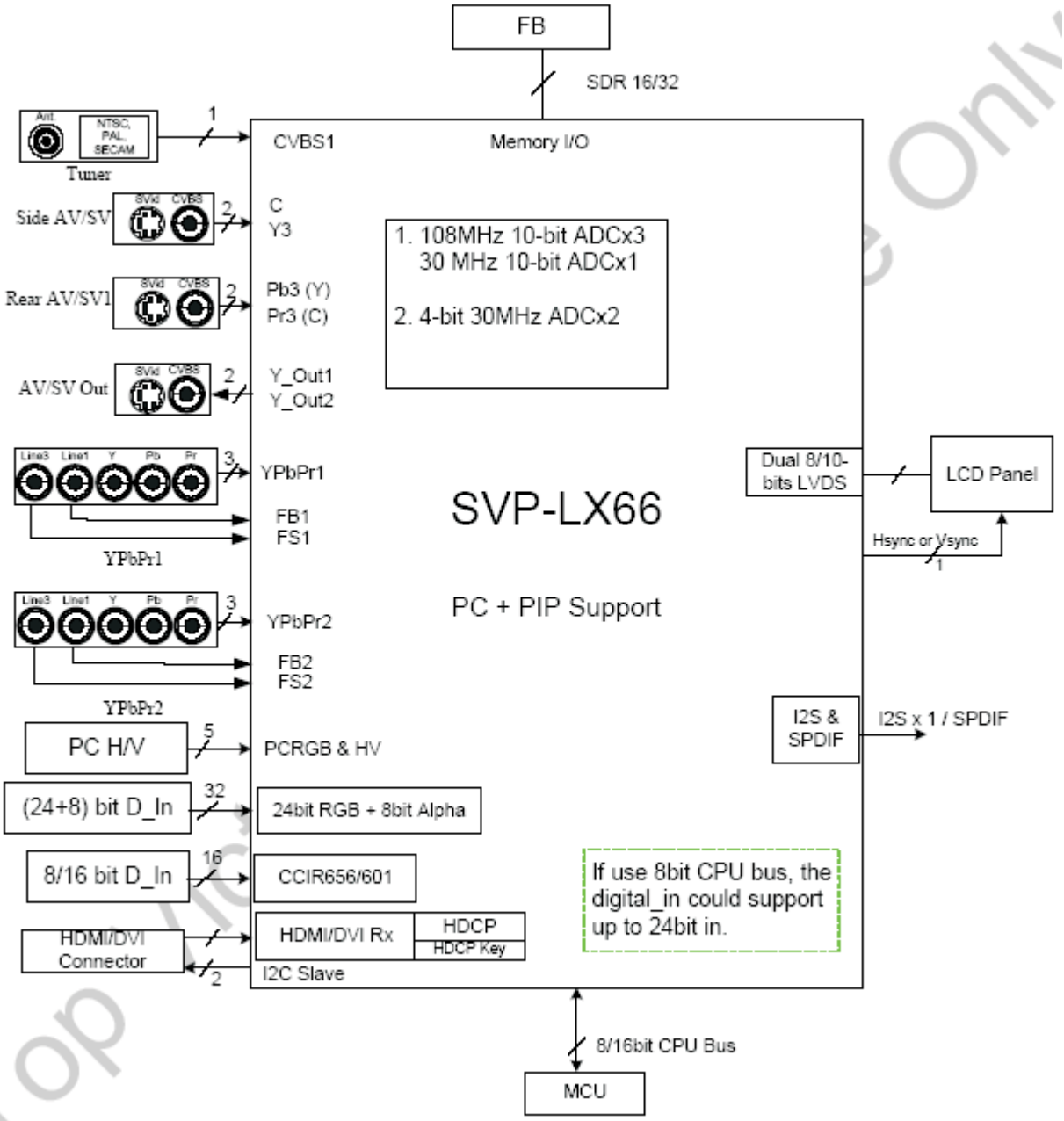
This section shows the internal block diagrams and pin configurations of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

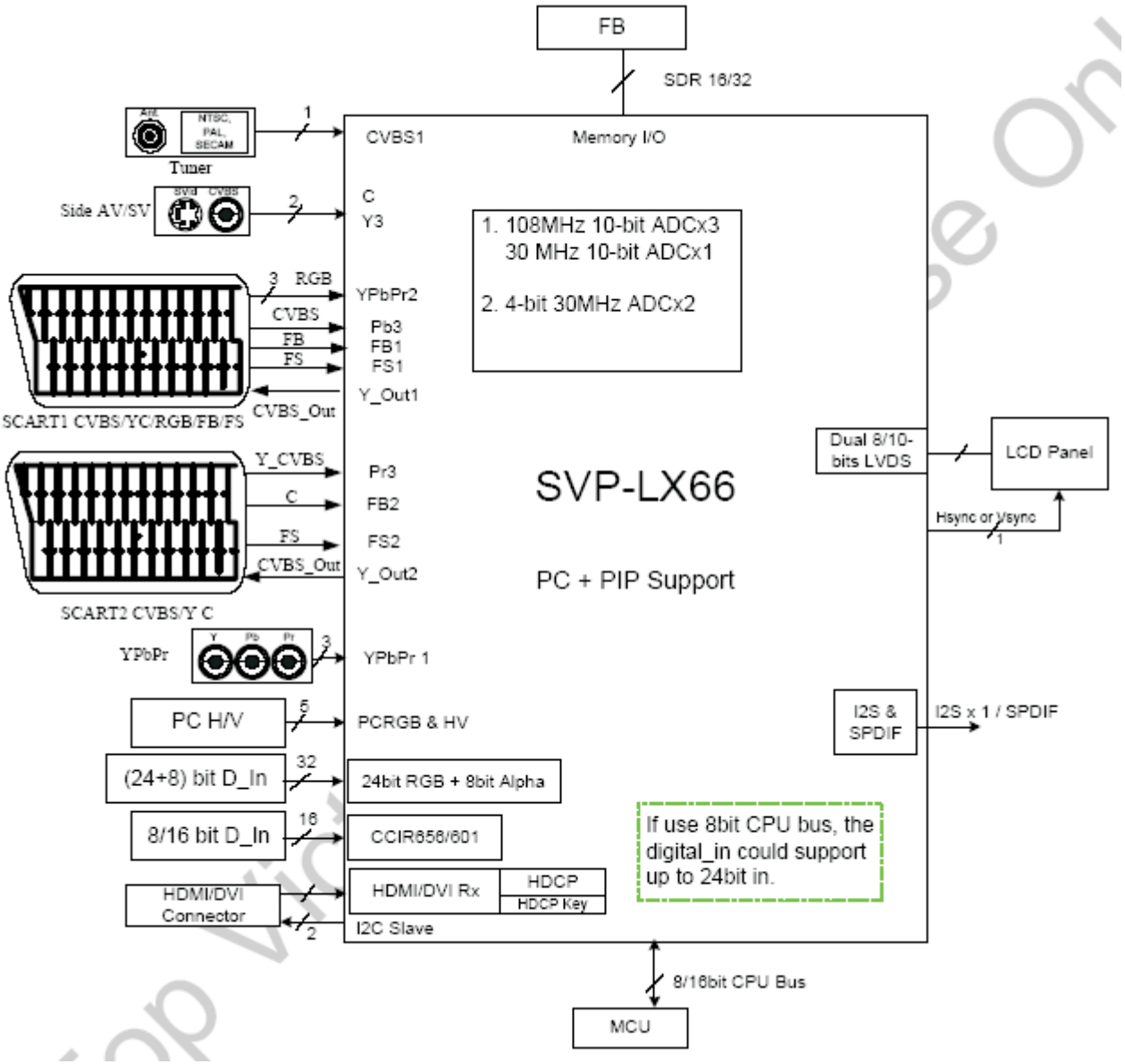
9.3.1 IC Data Sheets-SVP-LX66(U4202)

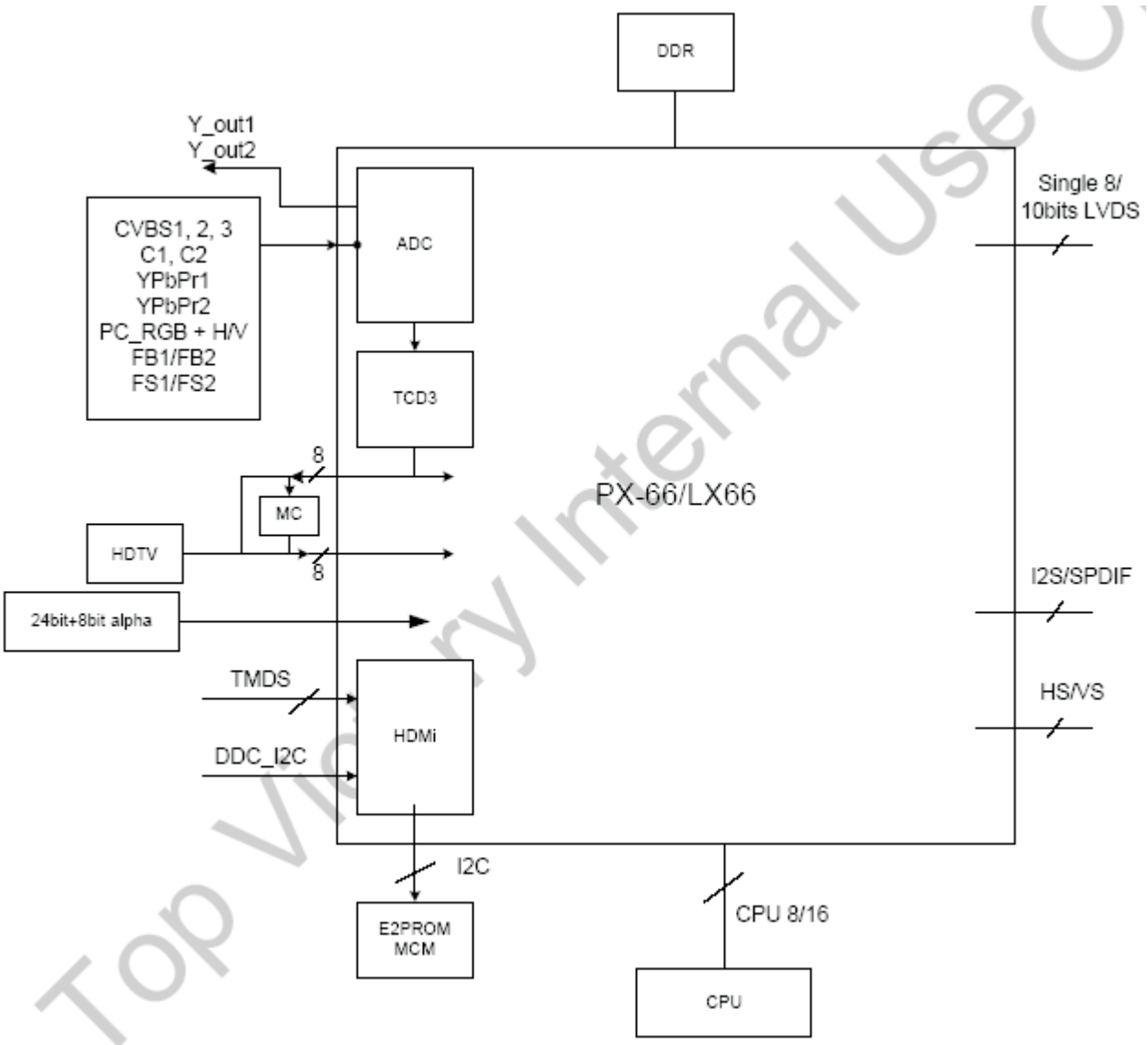
Block Diagram




FB
SDR 16/32
Ant
NTSC, PAL, SECAM
Tuner
Side AV/SV
Rear AV/SV1
Rear AV/SV2
AV/SV Out
YPbPr1
YPbPr2
PC H/V
24 bit D_In
8 bit D_In
HDMI/DVI Connector
CVBS1
Memory I/O
C
Y3
Pb3 (Y)
Pr3 (C)
FS1 (Y)
FS2 (C)
Y_Out1
Y_Out2
YPbPr1
FB1
YPbPr2
FB2
PCRGB & HV
24bit RGB
CCIR656
HDMI/DVI Rx
HDCP
HDCP Key
I2C Slave
1. 108MHz 10-bit ADCx3
30 MHz 10-bit ADCx1
2. 4-bit 30MHz ADCx2
SVP-LX66
PC + PIP Support
If use 8bit CPU bus, the digital_in could support up to 24bit in.
Dual 8/10-bits LVDS
LCD Panel
Hsync or Vsync
I2S & SPDIF
I2S x 1 / SPDIF
8/16bit CPU Bus
MCU


FB
SDR 16/32
Ant
NTSC, PAL, SECAM
Tuner
1
CVBS1
Memory I/O
Side AV/SV
SVid
CVBS
2
C
Y3
1. 108MHz 10-bit ADCx3
30 MHz 10-bit ADCx1
2. 4-bit 30MHz ADCx2
Rear AV/SV1
Pb3 (Y)
Pr3 (C)
AV/SV Out
Y_Out1
Y_Out2
Line3
Line1
Y
Pb
Pr
3
YPbPr1
FB1
FS1
YPbPr1
SVP-LX66
PC + PIP Support
YPbPr2
FB2
FS2
YPbPr2
Dual 8/10-bits LVDS
LCD Panel
Hsync or Vsync
I2S & SPDIF
I2S x 1 / SPDIF
PC H/V
5
PCRGB & HV
(24+8) bit D_In
32
24bit RGB + 8bit Alpha
8/16 bit D_In
16
CCIR656/601
If use 8bit CPU bus, the digital_in could support up to 24bit in.
HDMI/DVI Connector
HDMI/DVI Rx
HDCP
HDCP Key
I2C Slave
8/16bit CPU Bus
MCU


FB
SDR 16/32
Ant
NTSC, PAL, SECAM
Tuner
1
CVBS1
Memory I/O
Side AV/SV
S-Vid
CVBS
2
C
Y3
1. 108MHz 10-bit ADCx3
30 MHz 10-bit ADCx1
2. 4-bit 30MHz ADCx2
3 RGB
YPbPr2
CVBS
Pb3
FB
FB1
FS
FS1
Y_Out1
CVBS_Out
SCART1 CVBS/YC/RGB/FB/FS
Dual 8/10-bits LVDS
LCD Panel
Y_CVBS
Pr3
C
FB2
SVP-LX66
FS
FS2
Hsync or Vsync
1
CVBS_Out
Y_Out2
PC + PIP Support
SCART2 CVBS/Y C
YPbPr
Y
Pb
Pr
3
YPbPr 1
PC H/V
5
PCRGB & HV
I2S & SPDIF
I2S x 1 / SPDIF
(24+8) bit D_In
32
24bit RGB + 8bit Alpha
8/16 bit D_In
16
CCIR656/601
If use 8bit CPU bus, the digital_in could support up to 24bit in.
HDMI/DVI Connector
HDMI/DVI Rx
HDCP
HDCP Key
2
I2C Slave
8/16bit CPU Bus
MCU



Top Victory Internal Use Only

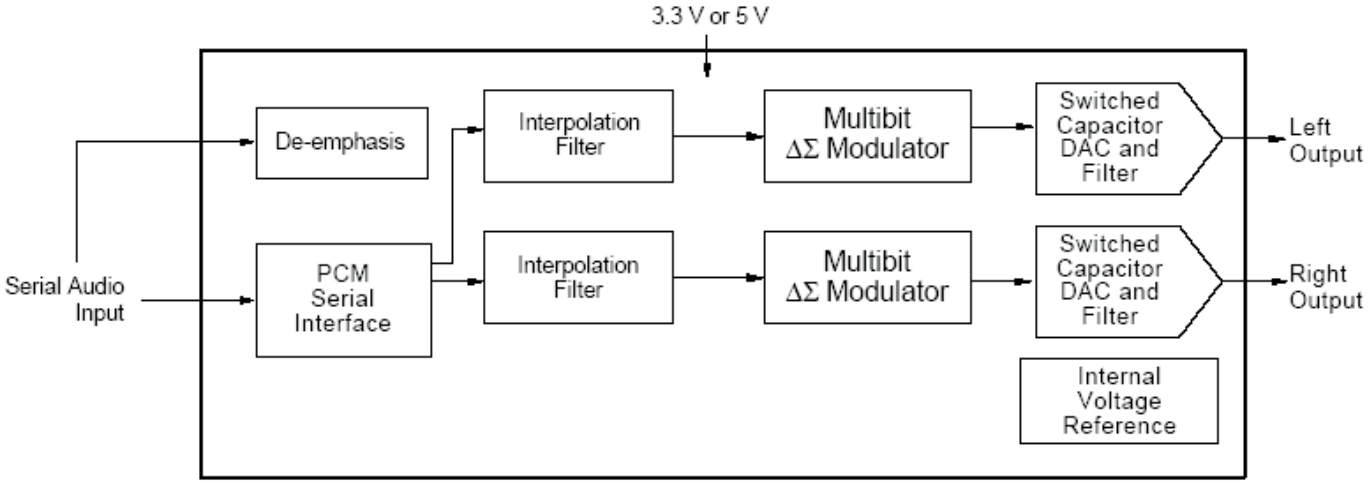
Pin assignment

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	MD27	MD26	MD25	MD23	MD21	DQM2	MD19	MD12	DQM1	MD7	MD6	DQM0	MD2	TA1P	TB1P	TC1P	TCLK1P	TD1P	TE1P	TA2P	A
B	DQM3	DQS3	VSS	VDDM	MD22	DQS2	MD18	MD13	DQS1	MD8	MD5	DQS0	MD1	TA1M	TB1M	TC1M	TCLK1M	TD1M	TE1M	TA2M	B
C	MD28	MD29	MD30	VDDM	MD24	VSS	MD17	MD14	VSS	MD9	MD4	VSS	MD0	VDDC	VDDC	LVDS_VSSD	LVDS_VDDO	LVDS_VSSO	LVDS_VSSO	TB2P	C
D	MCK0	VSS	MD31	VDDM	VDDM	MD20	MD16	MD15	MD11	MD10	VDDM	MD3	VDDC	VDDC	VDDC	LVDS_VDDD	LVDS_VDDO	LVDS_VDDF	TB2M	TC2P	D
E	MCK0#	VDDR	MVREF	VSSR	VDDM	VDDM	VSSR	VDDR	VDDM	VDDM	VDDM	VDDM	VDDC	VDDC	VDDC	LVDS_VSSA	LVDS_VDDA	LVDS_VSSF	TC1M	TCLK2P	E
F	MA11	MA10	MA9	MA8	VDDM											VSSF	TESTMODE	RESET	TCLK2M	TD2P	F
G	MA4	MA5	MA6	MA7	VDDM											VDDC	PWM0	INTN	TD2M	TE2P	G
H	MA3	MA2	MA1	MA0	VDDC			VSS	VSS	VSS	VSS	VSS	VSS			VDDC	SDA	SCL	TE2M	VSS	H
J	CAS#	RAS#	CS1#	CS0#	VDDC			VSS	VSS	VSS	VSS	VSS	VSS			VDDC	CPU_CS	ALE	WR#	RD#	J
K	WE#	CLKE	BA0	BA1	VDDC			VSS	VSS	VSS	VSS	VSS	VSS			VDDC	AD4	AD5	AD6	AD7	K
L	RXC+	RXC-	TMDS_GND	PVCC	VSS			VSS	VSS	VSS	VSS	VSS	VSS			VDDH	AD0	AD1	AD2	AD3	L
M	RX0+	RX0-	TMDS_GND	AVCC	ANTSTC			VSS	VSS	VSS	VSS	VSS	VSS			VDDH	ADDR7	ADDR6	ADDR5	ADDR4	M
N	RX1+	RX1-	TMDS_GND	AVCC	AVCC			VSS	VSS	VSS	VSS	VSS	VSS			VDDH	ADDR0	ADDR1	ADDR2	ADDR3	N
P	RX2+	RX2-	TMDS_GND	AVCC	DGND											VDDH	VS	VSS	HS	NC	P
R	TMDS_GND	AVDDLLPLL	PAVSS2	PLF2	REGVCC											VDDC	VDDH	VDDH	DPB_9	DPB_8	R
T	AVSSLLPLL	PAVSS1	PAVDD1	PAVDD2	AVSS_ADC1	AVSS_ADC4	AVSS_ADC2	AVDD_ADC3	AVSS_ADC3	PWRSV	DSCL	VDDH	VDDH	VDDC	VDDC	VSS	DPB_10	DPB_11	DPB_CLK	DPB_12	T
U	AVDDAPLL	MLF1	AVDD3_OUTBUF	FB2	AVDD_ADC1	AVDD_ADC4	AVDD_ADC2	PC_R	AVDD3_ADC2	AIN_VS	DSDA	WS	DPA_22	DPA_15	DPA_14	DPA_8	DPA_7	DPB_15	DPB_14	DPB_13	U
V	AVSSAPLL	CVBS_OUT2	AVDD3_BG_ASS	FS1	VREFN_1	Y_G1	VREFN_2	PR_R3	C	AIN_HS	SCDT	SD0	DPA_21	DPA_16	DPA_13	DPA_9	DPA_6	DPA_1	DPB_HS	DPB_VS	V
W	XTALI	CVBS_OUT1	AVSS_BG_ASS	FS2	VREFP_1	Y_G2	VREFP_2	PR_R2	FB_B1	PC_B	AUDIOCLK	SPDIF	DPA_20	DPA_17	DPA_12	DPA_10	DPA_5	DPA_2	DPA_0	DPB_DE	W
Y	XTALO	AVSS_OUTBUF	AVDD3_ADC1	CVBS1	FB1	Y_G3	PC_G	PR_R1	FB_B2	PB_B3	SCK	DPA_23	DPA_19	DPA_18	DPA_CLK	DPA_11	DPA_4	DPA_3	DPA_HS	DPA_VS	Y
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

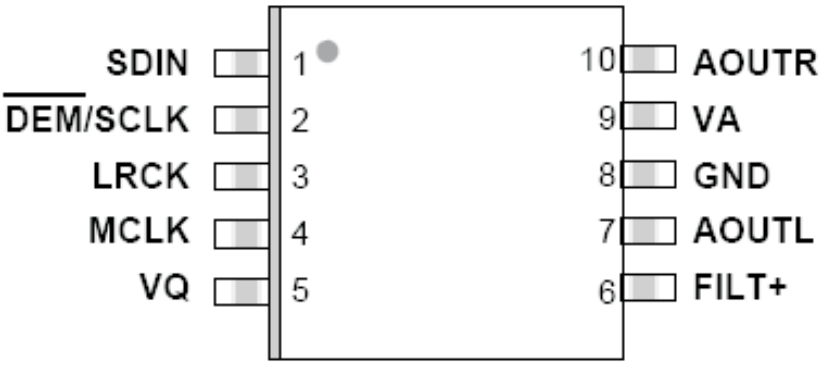
Factory Internal Use Only

9.3.2 IC Data Sheets-CS4344(U4201)

Block Diagram

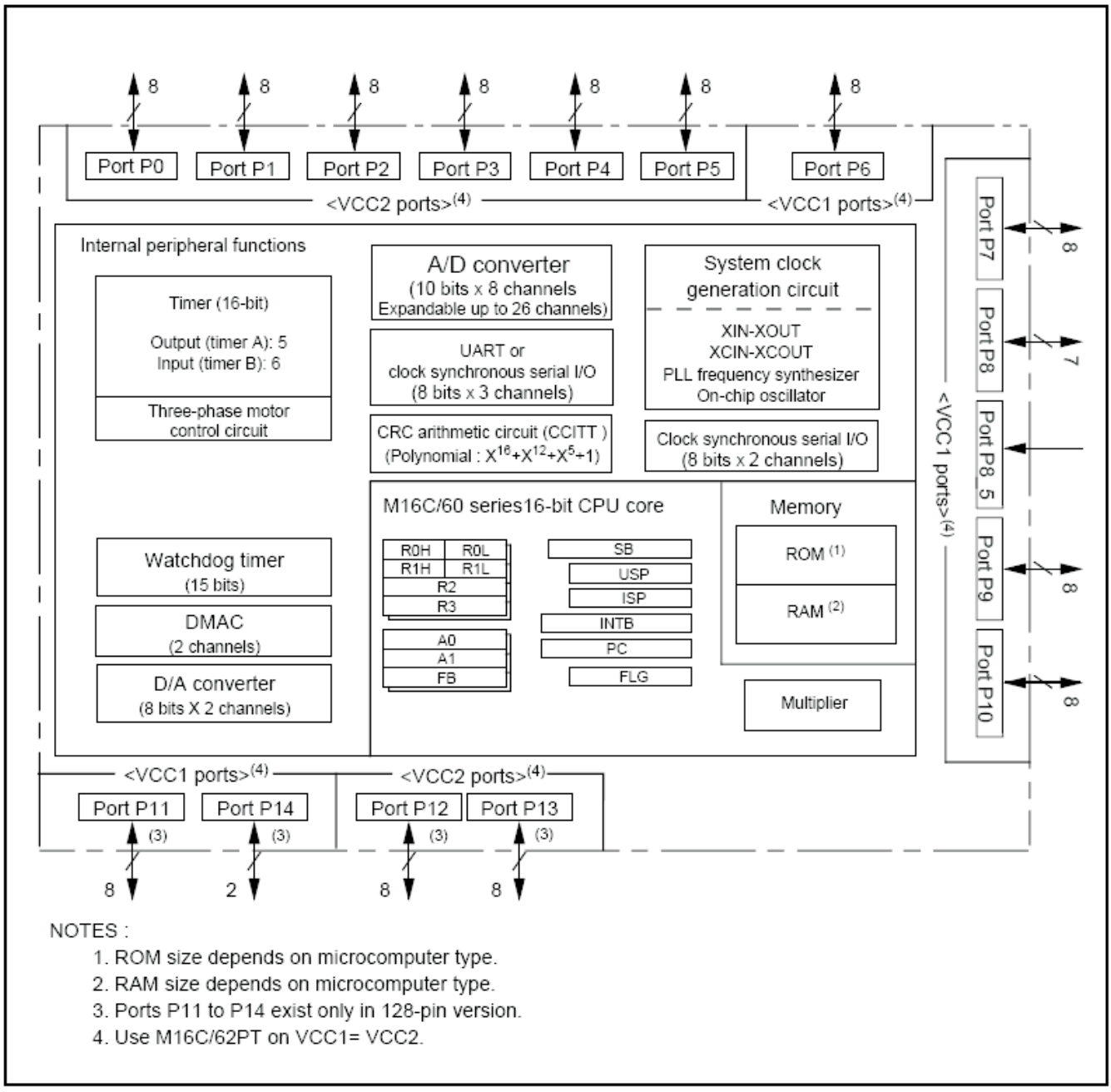


PIN DESCRIPTIONS



9.3.3 IC Data Sheets-M30300SAGP(U4102)

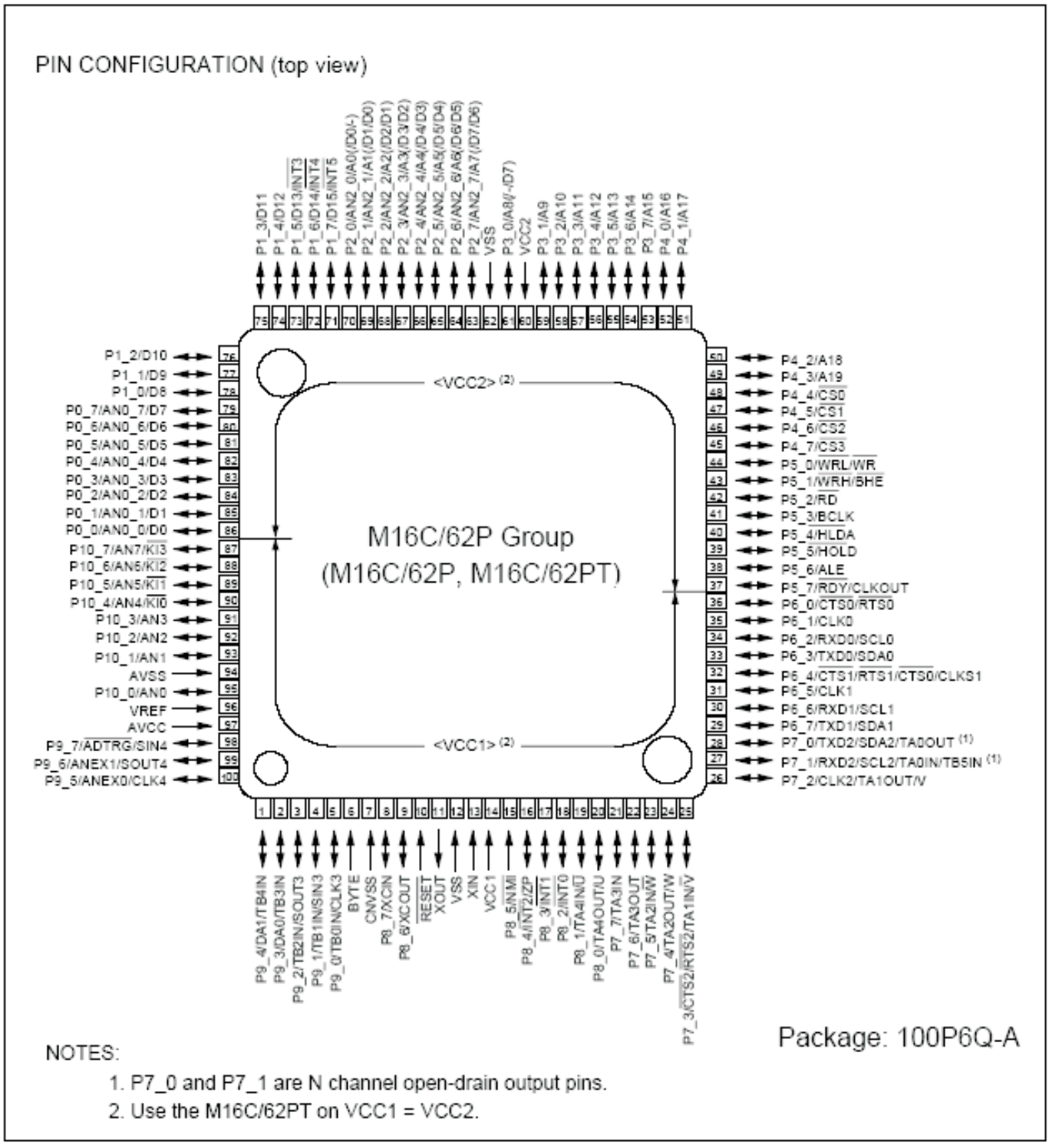
Block Diagram



NOTES :

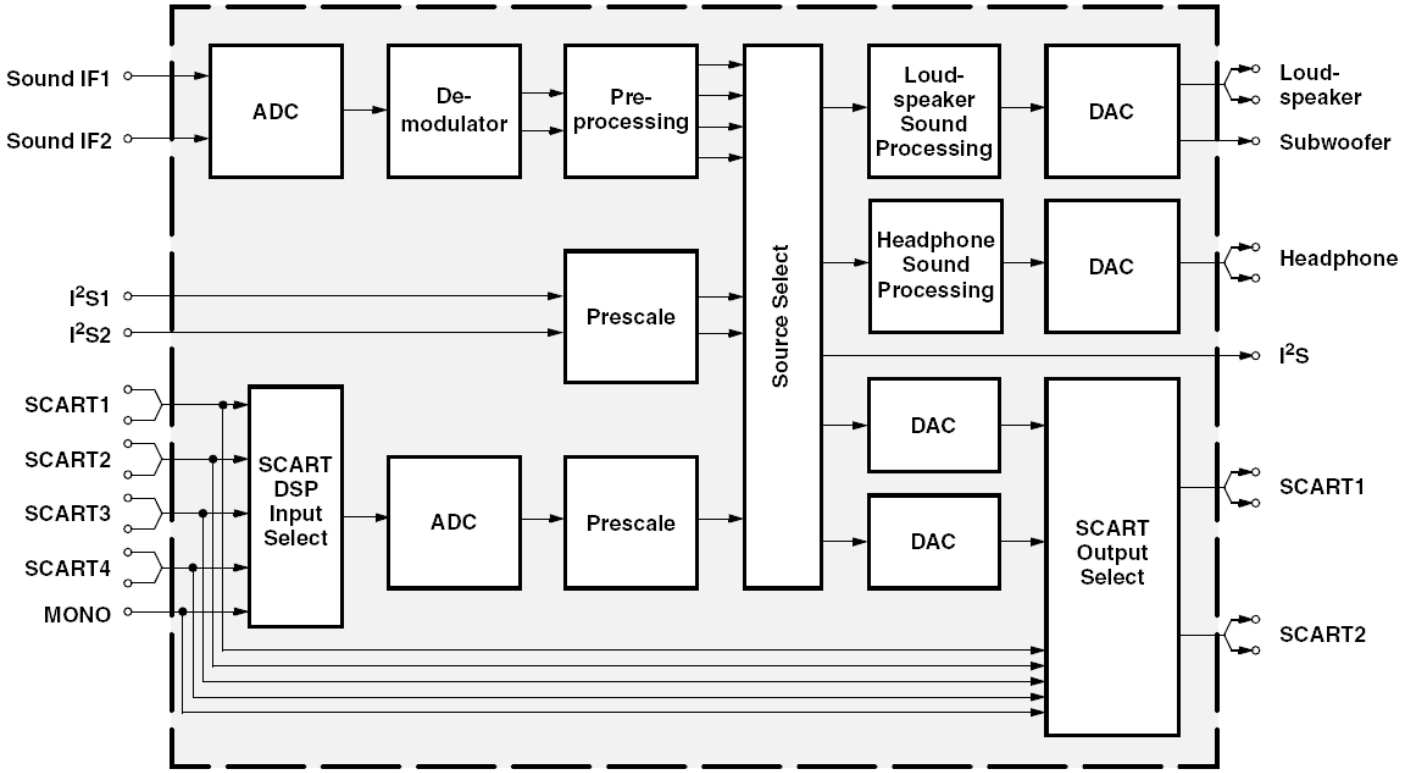
1. ROM size depends on microcomputer type.
2. RAM size depends on microcomputer type.
3. Ports P11 to P14 exist only in 128-pin version.
4. Use M16C/62PT on VCC1= VCC2.

Pin assignment

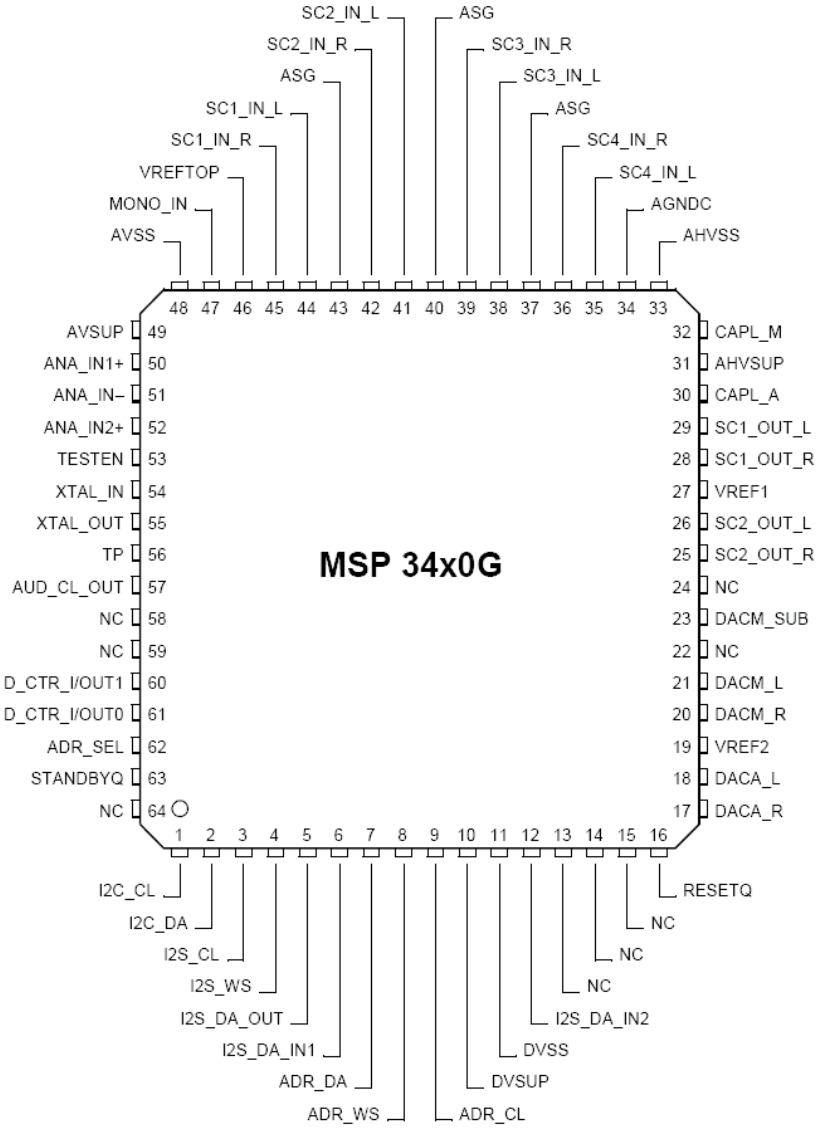


9.3.4 IC Data Sheets-MSP3410G(U6202)

Block Diagram



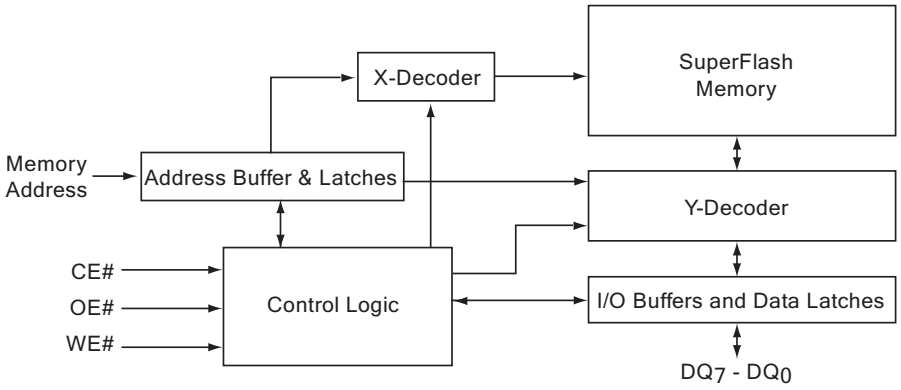
Pin assignment



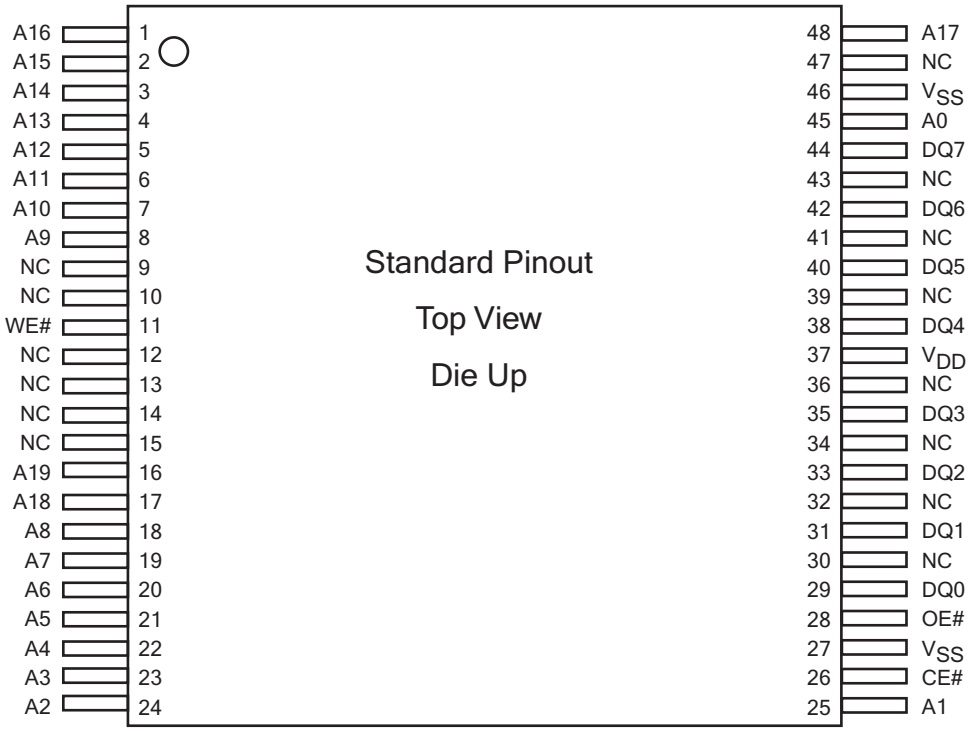
9.3.5 IC Data Sheets-SST39VF088(U4502)

Block Diagram

FUNCTIONAL BLOCK DIAGRAM



Pin assignment



10.Recommended/Spare Parts List

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10.1 Styling Sheet
10.2 Recommended Parts List
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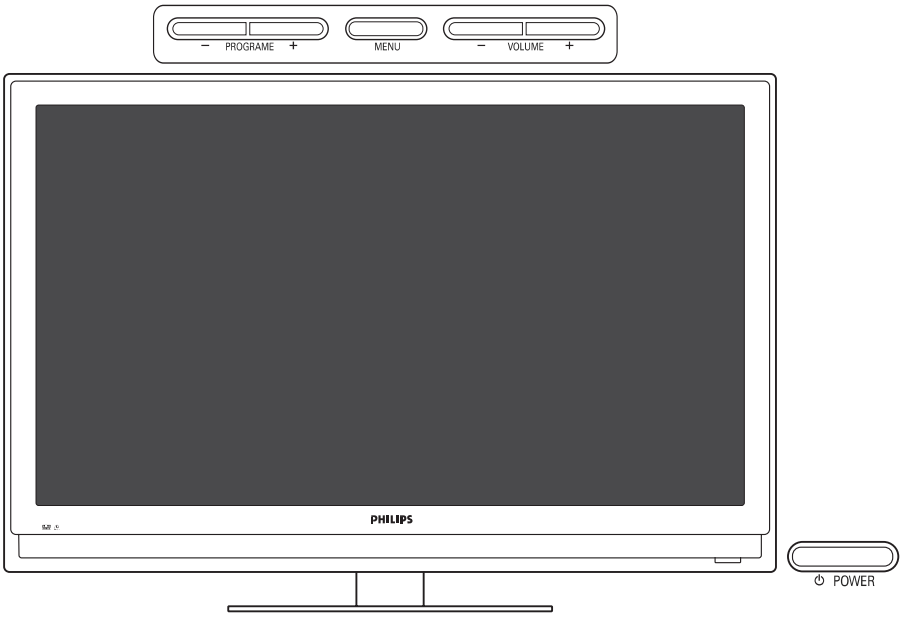
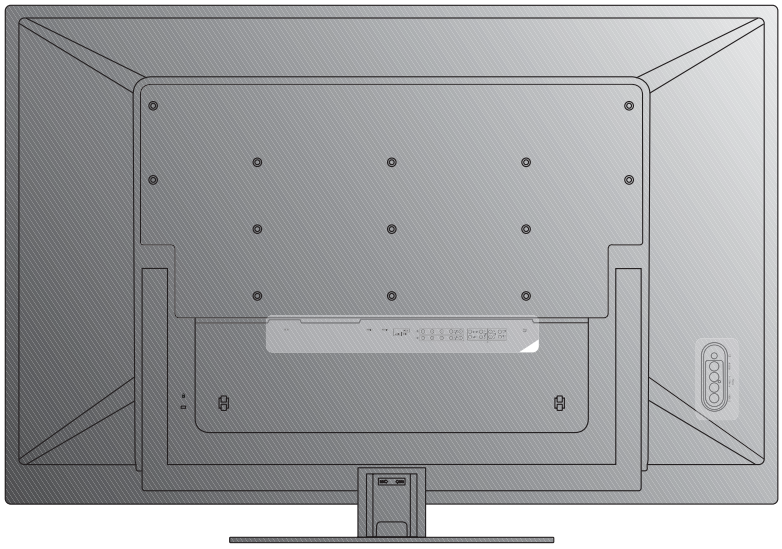
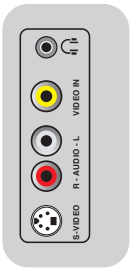
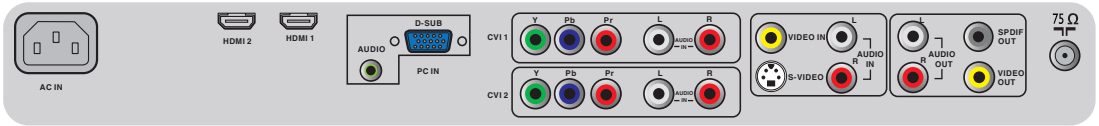
10.1 Styling Sheet

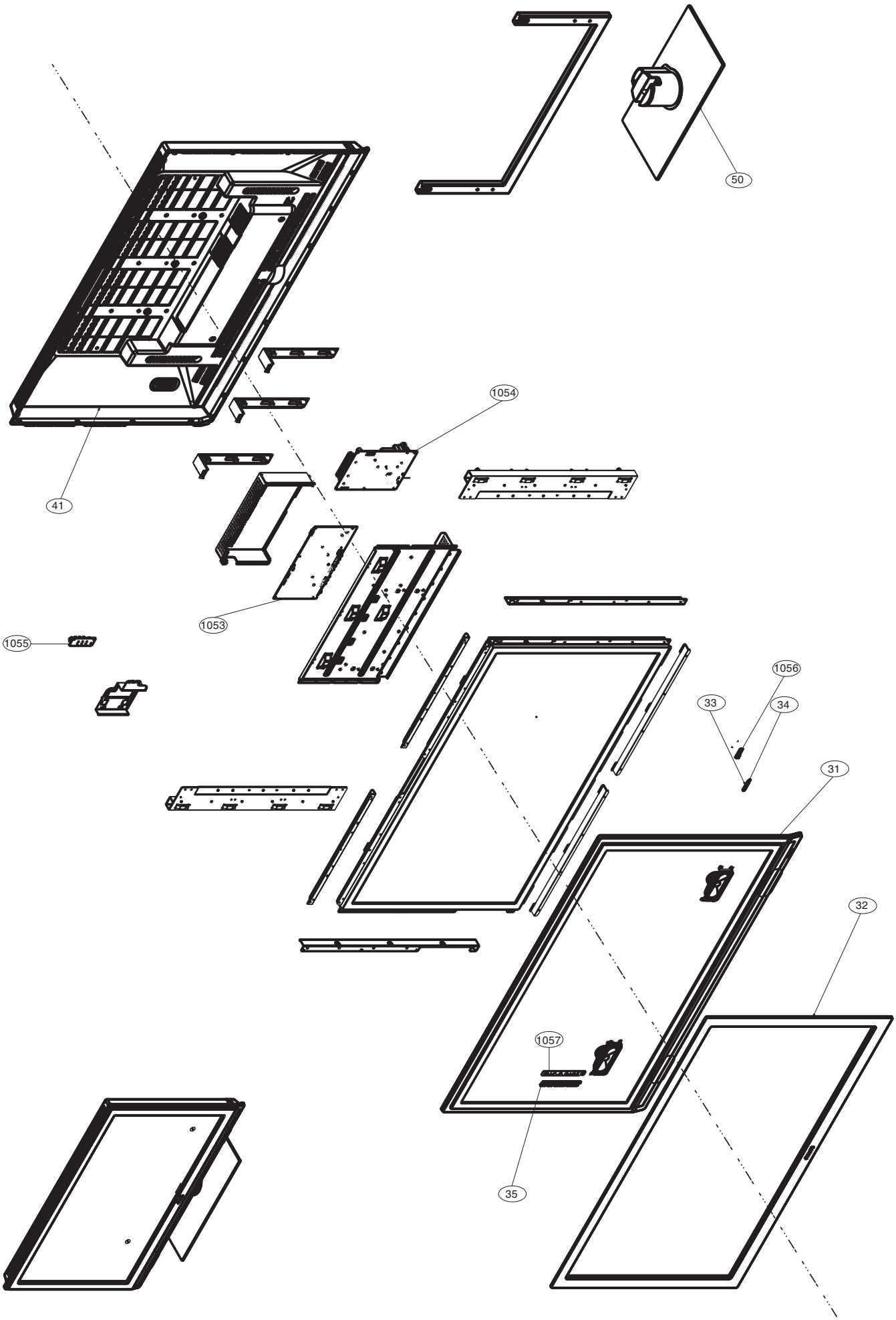








Type: 47PFL7422/93



Mechanical Parts List

Styling:				47PFL7422/93(LPL)
Item	Philips 12NC	TPV 18NC	Description	
31	9965 000 45192	P34T0171 WSA1A	BEZEL	√
32	9965 000 45193	P34T0172ACNA1T	FRONT DECO	√
33	9965 000 45194	P33T0090ABVA1E	LENS POWER	√
34	9965 000 45195	P33T0091ABEA1A	LENS RING	√
35	9965 000 45196	P33T0089WSA1A	BUTTON - FUNC	√
41	9965 000 45197	P34T0173ABUA1A	REAR COVER	√
50	9965 000 45175	P37T00601WS	BASE	√
1050	9965 000 45160	750TVGW0U4A21N	PANEL LC470WU4-SLA2 LPL	√
1053	9965 000 45187	CBPF7T2DP1	SCALER PCB ASSY	√
1054	9965 000 45188	ADPF24350R1P	POWER PCB ASSY	√
1055	9965 000 44560	PTPF7PA5	SIDE AV PCB ASSY	√
1056	9965 000 45189	IRPF7PA7	IR PCB ASSY	√
1057	9965 000 45190	KEPF7PA6	KEY BOARD ASSY	√

Software change record

Philips Model	scaler board	Panel	Latest software release		
			SW name	Version	Effective date
47PFL7422/93	9965 000 45187	LPL	9965 000 45248	V2.00	2007.03.12

Notes: The latest version of firmware can replace all of prevenient versions.

ALH Project Pannel to LVDS cable

Project	Panel	Item	Code NO.	Description	LVDS Item	Code NO.	Description
47PFL7422/93	LPL	1050	9965 000 45160	PANEL LC470WU4-SLA2 LPL	8803	9965 000 45169	HARNESS 51P-15*2P 220MM 46467

ALH LCD FFC cable, RC

MODEL	P-Cord		RC	
	Code NO.	Description	Code NO.	Description
47PFL7422/93(LPL)	9965 000 37422	POWER CORD	9965 000 45165	REMOTE CONTROL RC2023611/01B
	9965 000 41562	MAINSCORD CCEE 10A 1M8 DET BK		

10.2 Recommended Parts List

TYPE: 47PFL7422/93(LPL)

Item	Philips 12NC	DESCRIPTION	TPV 18NC
30	9965 000 45173	FRONT BEZEL ASSY	705TP734037
31	9965 000 45192	BEZEL	P34T0171WSA1A
32	9965 000 45193	FRONT DECO	P34T0172ACNA1T
33	9965 000 45194	LENS POWER	P33T0090ABVA1E
34	9965 000 45195	LENS RING	P33T0091ABEA1A
35	9965 000 45196	BUTTON - FUNC	P33T0089WSA1A
40	9965 000 45174	REAR COVER ASSY	705TP734036
41	9965 000 45197	REAR COVER	P34T0173ABUA1A
50	9965 000 45175	BASE	P37T00601WS
1185	9965 000 45166	SPEAKER 8 OHM 10W 121X51MM	078T490900Z
1186	9965 000 45166	SPEAKER 8 OHM 10W 121X51MM	078T490900Z
450	9965 000 45178	CARTON (TOP)	P44TP003813T1A
451	9965 000 45179	CUSHION-TOP-TL	P44TP0031
452	9965 000 45180	CUSHION-TOP-TR	P44TP0032
453	9965 000 45181	CUSHION-BTM-BA-L	P44TP0033
454	9965 000 45182	CUSHION-BTM-BA-R	P44TP0034
455	9965 000 45183	CUSHION-BTM-BB-L	P44TP0035
456	9965 000 45184	CUSHION-BTM-BB-R	P44TP0036
457	9965 000 45185	CARTON (BOTTOM)	P44TP003813B1A
458	9965 000 45186	P.E. BAG 1350X1000	P45T46020
1256	9965 000 45229	SERIAL IIC EEPROM ASSY	705TP756017
1257	9965 000 45231	SPI FLASH ASSY	705TP756018
Q1101	9965 000 40045	TRA SIG SM MMBT3904 (PHSE) R	057G417903T
Q4301	9965 000 42651	TRA FET 2N7002 SOT-23 PHILIPS	057G763904
Q5101	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q7204	9965 000 45224	FET SI4835BDY SO-8	057G763901
U1101	9965 000 42645	IC 74LV4053PW TSSOP16	056T665906
U1102	9965 000 35965	M24C02-WMN6TP	056G113334
U1102	9965 000 42647	IC AT24C02BN-10SU-1.8 SO8	056T1133907
U1103	9965 000 42633	74LVC14APM	056G4LCX14PH
U1201	9965 000 42623	TUNER, FQ1256/ I H-5	094TPALBDI1P
U4101	9965 000 42741	IC AT24C64AN-10SU-2.7 SO8	056T1133915
U4101	9965 000 42742	IC M24C64WMN6TP SO8	056T1133916
U4102	9965 000 42646	IC M30300SAGP RENESAS	056T1125182
U4103	9965 000 42641	IC SM AME1117BCGTZ (ST00) R	056T643904
U4201	9965 000 43743	IC CS4344-CZZ TSSOP-1	056T638601
U4202	9965 000 45230	IC SVP-LX66 BGA336	056T562915
U4501	9965 000 42632	K4D26328G-VC36 FBGA144	056G615804
U5103	9965 000 45232	IC PI5C3257QEX QSOP-16	056T614905
U5104	9965 000 45233	IC PI3HDMI412FT-AZHE TQFN42	056T634900
U5201	9965 000 42635	IC CS4344-CZZ TSSOP-1	056T567900
U6201	9965 000 42637	IC 74HC4052D PHILIPS	056T6141
U6202	9965 000 45234	IC MSP3410G-QI-B8V3 PMQFP64	056G593901
U6301	9965 000 45235	IC TPA3100D2PHPR HTQFP-48	056G616251
U6302	9965 000 42631	IC TDA1308T/N2 SO8	056G613900
U7202	9965 000 45237	IC LD1117S25TR SOT223	056G563912
U7202	9965 000 42627	IC AME1117BCGTZ SOT223	056G563920
U7202	9965 000 45236	AP1117E25LA	056K5855A
U7203	9965 000 45238	IC AP1501-33K5LA TO263-5L	056T563937
U7204	9965 000 45239	AP1501-50K5LA TO263-5L	056G56320
U7204	9965 000 44277	IC AIC1596-50PM5 TO263-5	056T563926
U7205	9965 000 42208	AME1117ECGTZ	056G56338A
U7205	9965 000 42626	IC LD1117AS18TR SOT223	056G563918
U7205	9965 000 45240	AP1117E18LA SOT223-3L ATC	056T56327A
U7206	9965 000 45241	AP1501-K5LA TO-263-5L	056G56314A
U7208	9965 000 44279	AME8815BEGT250Z SOT-223BY AME	056G56344
U7209	9965 000 42624	LD1117S33 SOT-223	056G1334PH
U7209	9965 000 42209	IC AME1117CCGTZ SOT223	056G563921
U7209	9965 000 42629	AP1117E33LA	056G5854A
U7209	9965 000 45242	AP1117E33LA SOT223-3L ATC	056T5854A
IC902	9965 000 44633	SG6961	056T379901
IC904	9965 000 36353	TEA1507P	056C625500S
IC909	9965 000 40056	TCET1103G	056G1395A
IC913	9965 000 43441	IC TL431ACZ S (ST00) A	056G158901
IC914	9965 000 45258	IC TEA1761T SO8	056T379903

10.3 Spare Parts List

Model: 47PFL7422/93(LPL) 12NC: 8670 000 27409

Item	Philips 12NC	DESCRIPTION	TPV 18NC
Mechanical Parts			
30	9965 000 45173	FRONT BEZEL ASSY	705TP734037
31	9965 000 45192	BEZEL	P34T0171WSA1A
32	9965 000 45193	FRONT DECO	P34T0172ACNA1T
33	9965 000 45194	LENS POWER	P33T0090ABVA1E
34	9965 000 45195	LENS RING	P33T0091ABEA1A
35	9965 000 45196	BUTTON - FUNC	P33T0089WSA1A
40	9965 000 45174	REAR COVER ASSY	705TP734036
41	9965 000 45197	REAR COVER	P34T0173ABUA1A
50	9965 000 45175	BASE	P37T00601WS
1185	9965 000 45166	SPEAKER 8 OHM 10W 121X51MM	078T490900Z
1186	9965 000 45166	SPEAKER 8 OHM 10W 121X51MM	078T490900Z
Packing Parts			
450	9965 000 45178	CARTON (TOP)	P44TP003813T1A
451	9965 000 45179	CUSHION-TOP-TL	P44TP0031
452	9965 000 45180	CUSHION-TOP-TR	P44TP0032
453	9965 000 45181	CUSHION-BTM-BA-L	P44TP0033
454	9965 000 45182	CUSHION-BTM-BA-R	P44TP0034
455	9965 000 45183	CUSHION-BTM-BB-L	P44TP0035
456	9965 000 45184	CUSHION-BTM-BB-R	P44TP0036
457	9965 000 45185	CARTON (BOTTOM)	P44TP003813B1A
458	9965 000 45186	P.E. BAG 1350X1000	P45T46020
Accessory			
145	9965 000 45177	USER'S MANUAL	P41TP0028131A
1172	9965 000 37422	POWER CORD	089G414A18NIS
1172	9965 000 41562	MAINSCORD CCEE 10A 1M8 DET BK	089G414A18NLSC
1176	9965 000 45165	REMOTE CONTROL RC2023611/01B	098TRABD4BTPHR
miscellanea			
126	9965 000 45176	RATING LABEL	P40TPV008131A
8351	9965 000 45161	HARNESS 3P-3P 730MM 46469	95T80143927FP
8352	9965 000 45162	HARNESS 6P-6P 1000MM 46468	95T80146945FP
8353	9965 000 45163	HARNESS 10P-10P 550MM 46470	95T801410934FP
8354	9965 000 45164	HARNESS 11P-11P 190MM 46471	95T801411933FP
8801	9965 000 45167	HARNESS 2P 690MM 46475	95T80132970FP
8802	9965 000 45168	HARNESS 3P 690MM 46474	95T80133960FP
8803	9965 000 45169	HARNESS 51P-15*2P 220MM 46467	95T801851922FP
8805	9965 000 45170	HARNESS 12P 5P-14 290 680MM 4647	95T801414946FP
8806	9965 000 45171	HARNESS 12P-12P 980MM 46472	95T801412941FP
8807	9965 000 45172	HARNESS 50MM 46440	095T900931FP
LCD Panel			
1050	9965 000 45160	PANEL LC470WU4-SLA2 LPL	750TVGW0U4A21N
PCB Assy			
1053	9965 000 45187	SCALER PCB ASSY	CBPF7T2DP1
1054	9965 000 45188	POWER PCB ASSY	ADPF24350R1P
1055	9965 000 44560	SIDE AV PCB ASSY	PTPF7PA5
1056	9965 000 45189	IR PCB ASSY	IRPF7PA7
1057	9965 000 45190	KEY BOARD ASSY	KEPF7PA6
PCB Assy			
1053	9965 000 45187	SCALER PCB ASSY	CBPF7T2DP1
Various			
1	9965 000 45198	MAIN TUNER PCB FR4 300.0X155.0X1	715T24081
291	9965 000 45247	LABEL	P40TP0008131A
295	9965 000 45247	LABEL	P40TP0008131A
615	9965 000 45248	HEX CODE	100TP101000331
CN1101	9965 000 45214	D-SUB CONN 15PIN F (WITH SCREW U	088T35315FHST
X4101	9965 000 45243	CRYSTAL 10MHZ 30P HC-49U/S	093G2281BD
X4201	9965 000 42621	CRYSTAL 28.322MHZ 49U/S	093T2279B
X5201	9965 000 45244	CRYSTAL 14.3181MHZ/20PF/49US	093T2253B
X6201	9965 000 45245	CRYSTAL 18.432MHZ 30P HC-49U/S	093G2268BD
C1101	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C1102	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C1105	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C1107	9965 000 42231	CAP CHIP 0603 330P 50V NPO /-5%	065G060333131J
C1108	9965 000 42231	CAP CHIP 0603 330P 50V NPO /-5%	065G060333131J
C1110	9965 000 42401	CER1 0603 NP0 50V 220P P M5 R	065G060322131J
C1111	9965 000 42230	CAP CHIP 0603 33P 50V NPO /-5%	065G060333031J
C1114	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C1115	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C1116	9965 000 43978	CAP CHIP 0603 10P 50V NPO /-5%	065G060310031J
C1117	9965 000 43978	CAP CHIP 0603 10P 50V NPO /-5%	065G060310031J
C1201	9965 000 45200	EC 1000UF 25V KH 13*20MM	067G215L1024C
C1202	9965 000 43984	CAP CHIP 0603 5P6 50V NPO /-0.5	065G060356931D
C1203	9965 000 43984	CAP CHIP 0603 5P6 50V NPO /-0.5	065G060356931D
C1204	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C1205	9965 000 45201	EC 10UF 25V RVS-25V100MD55-RL 4X	067G3111004TL
C1206	9965 000 43984	CAP CHIP 0603 5P6 50V NPO /-0.5	065G060356931D
C1207	9965 000 45201	EC 10UF 25V RVS-25V100MD55-RL 4X	067G3111004TL
C1208	9965 000 43984	CAP CHIP 0603 5P6 50V NPO /-0.5	065G060356931D
C1209	9965 000 43984	CAP CHIP 0603 5P6 50V NPO /-0.5	065G060356931D
C1210	9965 000 43984	CAP CHIP 0603 5P6 50V NPO /-0.5	065G060356931D
C1211	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C1212	9965 000 37774	105 470UF M 16V	067G3054713C
C1222	9965 000 45202	CHIP 820PF 25V NPO	065K060382121
C1228	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C1229	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C1230	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C1231	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C1232	9965 000 42230	CAP CHIP 0603 33P 50V NPO /-5%	065G060333031J
C1233	9965 000 42230	CAP CHIP 0603 33P 50V NPO /-5%	065G060333031J
C1234	9965 000 42230	CAP CHIP 0603 33P 50V NPO /-5%	065G060333031J
C1235	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C4101	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4102	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C4103	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4104	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4105	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4106	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4107	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C4108	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C4111	9965 000 42230	CAP CHIP 0603 33P 50V NPO /-5%	065G060333031J
C4112	9965 000 42230	CAP CHIP 0603 33P 50V NPO /-5%	065G060333031J
C4201	9965 000 42701	CHIP 2700PF 50V X7R	065T060327232
C4202	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4203	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4204	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4205	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4206	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4207	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4208	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4209	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4210	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4211	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4212	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4213	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4214	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4215	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4216	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4217	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4218	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4219	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4220	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4221	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4222	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4223	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4224	9965 000 42701	CHIP 2700PF 50V X7R	065T060327232
C4225	9965 000 42680	CAP CHIP 0603 18P 50V NPO /-5%	065G060318031J
C4226	9965 000 42680	CAP CHIP 0603 18P 50V NPO /-5%	065G060318031J
C4227	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4228	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C4229	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4230	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C4231	9965 000 45204	3.3UF 50V 105C V TYPE	067C311F3397T
C4232	9965 000 45201	EC 10UF 25V RVS-25V100MD55-RL 4X	067G3111004TL
C4233	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4301	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4304	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4305	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C4306	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4307	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C4308	9965 000 42264	CAP CHIP 0805 1U 16V X7R /-10%	065G080510512K
C4401	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4402	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4403	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4404	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4405	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4406	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4407	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4408	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C4409	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4410	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4411	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4412	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4413	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4414	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4415	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4416	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4417	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4418	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4419	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4420	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C4421	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4422	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4423	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4424	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4425	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4426	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4427	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4428	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4429	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4430	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4431	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4432	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4433	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4434	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4435	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4436	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4437	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4438	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4439	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C4440	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4441	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4442	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4443	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4444	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4445	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4446	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4447	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4448	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C4449	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4450	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K

C4451	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4452	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4453	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4454	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4455	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4456	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4457	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4458	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4459	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4460	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4461	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4462	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4463	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C4501	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4502	9965 000 42260	CAP CHIP 0603 10N 50V X7R /-10%	065G060310332K
C4503	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C4504	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4505	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4506	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4507	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4508	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4509	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C4510	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4511	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4512	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4513	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4514	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4515	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4516	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4517	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C4518	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C5101	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5103	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5105	9965 000 42672	CAP CHIP 0603 1N 50V X7R /-10%	065G060310232K
C5107	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5108	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C5109	9965 000 45206	RST CHIP 150K 1/10W 5%	061G0603154
C5110	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C5111	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5112	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5113	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5114	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5116	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5121	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5122	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C5123	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5124	9965 000 45207	SMD EC 100UF 25V 85C	067T3121014
C5125	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C5126	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5127	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5128	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5129	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5133	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5201	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5202	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C5203	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5204	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5205	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5206	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5207	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5208	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5209	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5210	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5212	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5213	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5214	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C5215	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5216	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C5217	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5218	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5219	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5220	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5221	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5222	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5224	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5225	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5226	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5227	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5228	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5229	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5230	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5231	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5232	9965 000 43977	CAP CHIP 0603 1N 25V NPO /-5%	065G060310221J
C5233	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5234	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5235	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5236	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5237	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5238	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5239	9965 000 43977	CAP CHIP 0603 1N 25V NPO /-5%	065G060310221J
C5240	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5241	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5242	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5243	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5244	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5245	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C5246	9965 000 43977	CAP CHIP 0603 1N 25V NPO /-5%	065G060310221J
C5248	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C5250	9965 000 42229	CAP CHIP 0603 22P 50V NPO /-5%	065G060322031J
C5251	9965 000 42229	CAP CHIP 0603 22P 50V NPO /-5%	065G060322031J
C5252	9965 000 43984	CAP CHIP 0603 5P6 50V NPO /-0.5	065G060356931D
C5253	9965 000 42229	CAP CHIP 0603 22P 50V NPO /-5%	065G060322031J
C5254	9965 000 42229	CAP CHIP 0603 22P 50V NPO /-5%	065G060322031J
C6201	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6202	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C6203	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6204	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6205	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6206	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6207	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6208	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6209	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6210	9965 000 42678	CAP CHIP 0603 15P 50V NPO /-5%	065G060315031J
C6211	9965 000 42690	CAP CHIP 0603 47P 50V NPO /-5%	065G060347031J
C6212	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6213	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6214	9965 000 42230	CAP CHIP 0603 33P 50V NPO /-5%	065G060333031J
C6215	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6216	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6217	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6218	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6219	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6220	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6221	9965 000 42230	CAP CHIP 0603 33P 50V NPO /-5%	065G060333031J
C6222	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6223	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6224	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6225	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6226	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6227	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6228	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6229	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6230	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6231	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C6232	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6233	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6234	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6235	9965 000 42686	CAP CHIP 0603 220N 25V X7R /-10	065G060322422K
C6236	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6237	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6238	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6239	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6301	9965 000 45208	EC 1000UF 35V EB 13X25MM	067G215H1026K
C6302	9965 000 45209	CAP CHIP 0805 470N 25V X7R /-5%	065G080547422J
C6303	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6304	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6305	9965 000 44025	CER 1206 22U 10V Y5V -20% 80%	065G1206226A7Z
C6306	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6307	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C6308	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C6309	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C6310	9965 000 42686	CAP CHIP 0603 220N 25V X7R /-10	065G060322422K
C6311	9965 000 42686	CAP CHIP 0603 220N 25V X7R /-10	065G060322422K
C6312	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C6313	9965 000 42260	CAP CHIP 0603 10N 50V X7R /-10%	065G060310332K
C6314	9965 000 45210	EC 47UF/35V VEJ 8X10MM	067G311F4706T
C6315	9965 000 42684	CAP CHIP 0603 22N 50V X7R /-10%	065G060322332K
C6317	9965 000 38992	CHIP 1UF 16V X7R 0603	065G060310512
C6318	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6320	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C6321	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6322	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6323	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6324	9965 000 42684	CAP CHIP 0603 22N 50V X7R /-10%	065G060322332K
C6326	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C6327	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C6328	9965 000 42260	CAP CHIP 0603 10N 50V X7R /-10%	065G060310332K
C6329	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6330	9965 000 42400	CAP CHIP 0603 1U 10V Y5V -20% 80	065G0603105A7Z
C6331	9965 000 42696	CAP CHIP 0805 1U 25V X7R /-10%	065G080510522K
C6332	9965 000 42696	CAP CHIP 0805 1U 25V X7R /-10%	065G080510522K
C6333	9965 000 38992	CHIP 1UF 16V X7R 0603	065G060310512
C6334	9965 000 42684	CAP CHIP 0603 22N 50V X7R /-10%	065G060322332K
C6337	9965 000 42696	CAP CHIP 0805 1U 25V X7R /-10%	065G080510522K
C6338	9965 000 42686	CAP CHIP 0603 220N 25V X7R /-10	065G060322422K
C6339	9965 000 42686	CAP CHIP 0603 220N 25V X7R /-10	065G060322422K
C6340	9965 000 42696	CAP CHIP 0805 1U 25V X7R /-10%	065G080510522K
C6341	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C6342	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C6343	9965 000 45209	CAP CHIP 0805 470N 25V X7R /-5%	065G080547422J
C6344	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6345	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C6353	9965 000 45211	CER 1206 1U 50V Y5V -20% 80%	065G120610537Z
C7101	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7104	9965 000 45199	CAP CHIP 4.7UF 10V X7R /- 10%	065G0805475A2K
C7106	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7107	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C7108	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C7109	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7110	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C7111	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7113	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C7114	9965 000 42259	CAP CHIP 0603 100P 50V NPO /-5%	065G060310131J
C7127	9965 000 45205	CHIP 10UF 10V Y5V 0805	065G0805106A7
C7201	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7202	9965 000 45212	EC 105 470UF 35V ED1V471MNN1020F	067G215S4716K
C7204	9965 000 42262	CAP CHIP 0603 100N 50V Y5V -20%	065G060310437Z
C7205	9965 000 42260	CAP CHIP 0603 10N 50V X7R /-10%	065G060310332K
C7206	9965 000 45213	2.2UF 25V X7R 1206	065C120622522
C7207	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7208	9965 000 37774	105□ 470UF M 16V	067G3054713C
C7209	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7210	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7211	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7212	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7213	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7214	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7215	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7216	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C7217	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C

C7218	9965 000 43913	EC 470UF 35V KM 10X16MM	067G3054716C
C7220	9965 000 42604	EC 470UF 25V LZ 10X12.5MM	067G215R4714C
C7221	9965 000 42262	CAP CHIP 0603 100N 50V Y5V -20%	065G060310437Z
C7222	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7227	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C7229	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7230	9965 000 43913	EC 470UF 35V KM 10X16MM	067G3054716C
C7231	9965 000 42604	EC 470UF 25V LZ 10X12.5MM	067G215R4714C
C7232	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7233	9965 000 42604	EC 470UF 25V LZ 10X12.5MM	067G215R4714C
C7234	9965 000 42262	CAP CHIP 0603 100N 50V Y5V -20%	065G060310437Z
C7235	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7236	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7237	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7238	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7239	9965 000 42232	CAP CHIP 0603 47N 16V X7R /-10%	065G060347312K
C7241	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7243	9965 000 43913	EC 470UF 35V KM 10X16MM	067G3054716C
C7246	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7247	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7248	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7249	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7250	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7251	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7252	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K
C7253	9965 000 45203	EC 100UF 25V KH 6.3*11MM	067G215L1014C
C7256	9965 000 43488	CAP CHIP 0603 100N 25V X7R /-10	065G060310422K

R1102	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R1103	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R1104	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R1105	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R1106	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R1107	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R1108	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R1109	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R1110	9965 000 42224	RST CHIPR 470 OHM -5% 1/10W	061G0603471
R1111	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1113	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R1114	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R1115	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R1116	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1117	9965 000 42219	RST CHIPR 2.2 KOHM -5% 1/10W	061G0603222
R1118	9965 000 42219	RST CHIPR 2.2 KOHM -5% 1/10W	061G0603222
R1119	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1120	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R1121	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1122	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1123	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R1125	9965 000 42220	RST CHIPR 22 KOHM -5% 1/10W	061G0603223
R1126	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R1127	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1128	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1131	9965 000 40053	RST CHIP 1K 1/10W 5%	061G0603102
R1132	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R1133	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R1201	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R1202	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1203	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R1204	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1205	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1206	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1207	9965 000 42656	RST CHIPR 10 OHM -5% 1/10W	061G0603100
R1208	9965 000 42656	RST CHIPR 10 OHM -5% 1/10W	061G0603100
R1210	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1211	9965 000 42219	RST CHIPR 2.2 KOHM -5% 1/10W	061G0603222
R1212	9965 000 42656	RST CHIPR 10 OHM -5% 1/10W	061G0603100
R1213	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R1214	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1215	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1216	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1217	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1218	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1219	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1220	9965 000 42218	RST CHIPR 220 OHM -5% 1/10W	061G0603221
R1221	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1222	9965 000 42657	RST CHIPR 120 OHM -5% 1/10W	061G0603121
R1223	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R1224	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1225	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1226	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1227	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R1228	9965 000 42667	RST CHIPR 56 OHM -5% 1/10W	061G0603560
R1229	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1230	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1231	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R1232	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R1233	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1234	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1235	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R1236	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1237	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R1238	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4101	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4103	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4110	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4111	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4112	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4115	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4117	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4118	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4119	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4120	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4121	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4122	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4123	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4125	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4126	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4127	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4130	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4135	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4137	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4139	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4140	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4141	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4142	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4145	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4146	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4153	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4154	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R4155	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R4156	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R4202	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R4208	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4211	9965 000 42224	RST CHIPR 470 OHM -5% 1/10W	061G0603471
R4214	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4215	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4217	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4218	9965 000 42224	RST CHIPR 470 OHM -5% 1/10W	061G0603471
R4301	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4304	9965 000 42656	RST CHIPR 10 OHM -5% 1/10W	061G0603100
R4305	9965 000 42656	RST CHIPR 10 OHM -5% 1/10W	061G0603100
R4306	9965 000 43955	RST CHIPR 1 KOHM -1% 1/10W	061G06031001F
R4307	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4308	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R4309	9965 000 43955	RST CHIPR 1 KOHM -1% 1/10W	061G06031001F
R4310	9965 000 43955	RST CHIPR 1 KOHM -1% 1/10W	061G06031001F
R4313	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R4314	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R4401	9965 000 42217	RST CHIPR 22 OHM -5% 1/10W	061G0603220
R4402	9965 000 42217	RST CHIPR 22 OHM -5% 1/10W	061G0603220
R4501	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4502	9965 000 42666	RST CHIPR 51 OHM -5% 1/10W	061G0603510
R4503	9965 000 42666	RST CHIPR 51 OHM -5% 1/10W	061G0603510
R4504	9965 000 42659	RST CHIPR 15 OHM -5% 1/10W	061G0603150
R4505	9965 000 42659	RST CHIPR 15 OHM -5% 1/10W	061G0603150
R4506	9965 000 42659	RST CHIPR 15 OHM -5% 1/10W	061G0603150
R4507	9965 000 42659	RST CHIPR 15 OHM -5% 1/10W	061G0603150
R4508	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4509	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4510	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4511	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4512	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R4513	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R5101	9965 000 44044	RST CHIPR 1.8 KOHM -5% 1/10W	061G0603182
R5102	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5103	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5104	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5105	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5106	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5107	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R5109	9965 000 43955	RST CHIPR 1 KOHM -1% 1/10W	061G06031001F
R5111	9965 000 43958	RST CHIPR 1.5 KOHM -5% 1/10W	061G0603152
R5113	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R5114	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5116	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5118	9965 000 43975	RST CHIPR 560 OHM -1% 1/8W	061G0805560
R5120	9965 000 45225	RST CHIP 1K5 1/10W 1%	061G06031501F
R5121	9965 000 43955	RST CHIPR 1 KOHM -1% 1/10W	061G06031001F
R5125	9965 000 45226	RST CHIP 270R 1/10W 5%	061G0603271
R5126	9965 000 42661	RST CHIPR 2.7 KOHM -1% 1/10W	061G06032701F
R5128	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5129	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5130	9965 000 42220	RST CHIPR 22 KOHM -5% 1/10W	061G0603223
R5131	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R5132	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R5133	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R5134	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R5135	9965 000 43955	RST CHIPR 1 KOHM -1% 1/10W	061G06031001F
R5138	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R5201	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R5202	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R5203	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5204	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5205	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5206	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5207	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5208	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5209	9965 000 44263	RST CHIP 390R 1/10W 1%	061G06033900F
R5210	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R5211	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5212	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5213	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5214	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5215	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5216	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5217	9965 000 44263	RST CHIP 390R 1/10W 1%	061G06033900F
R5220	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5221	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5222	9965 000 42222	RST CHIPR 33 OHM -5% 1/10W	061G0603330
R5223	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5224	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5225	9965 000 42226	RST CHIPR 68 OHM -5% 1/10W	061G0603680
R5226	9965 000 44263	RST CHIP 390R 1/10W 1%	061G06033900F
R5231	9965 000 44263	RST CHIP 390R 1/10W 1%	061G06033900F
R5233	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R5234	9965 000 42659	RST CHIPR 15 OHM -5% 1/10W	061G0603150
R5235	9965 000 42659	RST CHIPR 15 OHM -5% 1/10W	061G0603150
R5236	9965 000 42659	RST CHIPR 15 OHM -5% 1/10W	061G0603150
R5237	9965 000 42659	RST CHIPR 15 OHM -5% 1/10W	061G0603150

R6201	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R6202	9965 000 42219	RST CHIPR 2.2 KOHM -5% 1/10W	061G0603222
R6203	9965 000 42219	RST CHIPR 2.2 KOHM -5% 1/10W	061G0603222
R6204	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6205	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6206	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6207	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6208	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6209	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6210	9965 000 42224	RST CHIPR 470 OHM -5% 1/10W	061G0603471
R6211	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6212	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6213	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6214	9965 000 42665	RST CHIPR 470 KOHM -5% 1/10W	061G0603474
R6215	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R6216	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R6217	9965 000 42656	RST CHIPR 10 OHM -5% 1/10W	061G0603100
R6218	9965 000 42656	RST CHIPR 10 OHM -5% 1/10W	061G0603100
R6219	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R6220	9965 000 42221	RST CHIPR 27 KOHM -5% 1/10W	061G0603273
R6222	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R6223	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R6301	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R6302	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R6303	9965 000 42220	RST CHIPR 22 KOHM -5% 1/10W	061G0603223
R6304	9965 000 42220	RST CHIPR 22 KOHM -5% 1/10W	061G0603223
R6305	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R6306	9965 000 43487	RST CHIPR 3.3 KOHM -5% 1/10W	061G0603332
R6307	9965 000 42669	RST CHIPR 6.8 KOHM -5% 1/10W	061G0603682
R6308	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R6309	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R6310	9965 000 42220	RST CHIPR 22 KOHM -5% 1/10W	061G0603223
R6311	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R6312	9965 000 42669	RST CHIPR 6.8 KOHM -5% 1/10W	061G0603682
R6313	9965 000 42220	RST CHIPR 22 KOHM -5% 1/10W	061G0603223
R6314	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R6315	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R6316	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R6318	9965 000 42215	RST CHIPR 100 KOHM -5% 1/10W	061G0603104
R6321	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R6322	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7101	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R7102	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7103	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7104	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7105	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7106	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R7107	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R7109	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7110	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7111	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7112	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7113	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7114	9965 000 42656	RST CHIPR 10 OHM -5% 1/10W	061G0603100
R7115	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7116	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7117	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7118	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7119	9965 000 42662		061G0603331
R7120	9965 000 42662		061G0603331
R7122	9965 000 45227	PTC CHIP 13V2 0R45 MINISMDC075F-	061G52900T
R7126	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7202	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7205	9965 000 42255	RST CHIPR 5.1 KOHM -5% 1/10W	061G0603512
R7206	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R7207	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7208	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R7209	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7210	9965 000 45228	RST CHIP 2K7 1/10W 5%	061G0603272
R7211	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7212	9965 000 42215	RST CHIPR 100 KOHM -5% 1/10W	061G0603104
R7213	9965 000 42397	RST CHIPR 15KOHM -5% 1/10W	061G0603153
R7215	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R7218	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7221	9965 000 42215	RST CHIPR 100 KOHM -5% 1/10W	061G0603104
R7222	9965 000 42397	RST CHIPR 15KOHM -5% 1/10W	061G0603153
R7224	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7225	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R7227	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7230	9965 000 42215	RST CHIPR 100 KOHM -5% 1/10W	061G0603104
R7231	9965 000 42397	RST CHIPR 15KOHM -5% 1/10W	061G0603153
R7232	9965 000 43955	RST CHIPR 1 KOHM -1% 1/10W	061G06031001F
R7234	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
R7235	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R7236	9965 000 42213	RST CHIPR 100 OHM -5% 1/10W	061G0603101
R7237	9965 000 42219	RST CHIPR 2.2 KOHM -5% 1/10W	061G0603222
R7257	9965 000 39751	0 OHM 1/8W	061G1206000
R7258	9965 000 42214	RST CHIPR 10 KOHM -5% 1/10W	061G0603103
RP4301	9965 000 42654	RST CHIP AR 8P4R 100 OHM -5% 1/	061G1251018
RP4302	9965 000 42654	RST CHIP AR 8P4R 100 OHM -5% 1/	061G1251018
RP4303	9965 000 42654	RST CHIP AR 8P4R 100 OHM -5% 1/	061G1251018
RP4304	9965 000 42654	RST CHIP AR 8P4R 100 OHM -5% 1/	061G1251018
RP4501	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP4502	9965 000 42655	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G1251508
RP4503	9965 000 42655	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G1251508
RP4504	9965 000 42655	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G1251508
RP4505	9965 000 42655	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G1251508
RP4506	9965 000 42655	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G1251508
RP4507	9965 000 42655	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G1251508
RP4508	9965 000 42655	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G1251508
RP4509	9965 000 42655	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G1251508
RP4510	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP4511	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP4512	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP4513	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP4514	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP5201	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP5202	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP5203	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP5204	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP5205	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
RP5206	9965 000 42653	RST CHIP AR 8P4R 0 OHM -5% 1/16	061G1250008
FB1101	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1102	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1103	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1104	9965 000 44257	CHIP BEAD 600R/200MA FCM1608K-60	071G59C601TA
FB1105	9965 000 44257	CHIP BEAD 600R/200MA FCM1608K-60	071G59C601TA
FB1106	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1107	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1201	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB1202	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1203	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1204	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1205	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1206	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1207	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1208	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1209	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1210	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1211	9965 000 43996	CHIP BEAD 120R/500MA MMZ1608S121	071G59Q121T
FB1212	9965 000 45218	CHIP BEAD 10R/500MA FCB1608CF-10	071G59C100TA
FB1213	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1214	9965 000 43996	CHIP BEAD 120R/500MA MMZ1608S121	071G59Q121T
FB1215	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1216	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1217	9965 000 43996	CHIP BEAD 120R/500MA MMZ1608S121	071G59Q121T
FB1218	9965 000 43996	CHIP BEAD 120R/500MA MMZ1608S121	071G59Q121T
FB1219	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1220	9965 000 43996	CHIP BEAD 120R/500MA MMZ1608S121	071G59Q121T
FB1221	9965 000 43996	CHIP BEAD 120R/500MA MMZ1608S121	071G59Q121T
FB1222	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1223	9965 000 43996	CHIP BEAD 120R/500MA MMZ1608S121	071G59Q121T
FB1224	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1225	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1226	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1227	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB1231	9965 000 45219	CHIP BEAD 600R/300MA FCM1608KF-6	071G59K601TA
FB4201	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB4401	9965 000 45221	CHIP BEAD 120R/600MA FCM1608KF-1	071G59D121TA
FB4402	9965 000 45221	CHIP BEAD 120R/600MA FCM1608KF-1	071G59D121TA
FB4403	9965 000 45221	CHIP BEAD 120R/600MA FCM1608KF-1	071G59D121TA
FB4404	9965 000 45221	CHIP BEAD 120R/600MA FCM1608KF-1	071G59D121TA
FB4405	9965 000 45221	CHIP BEAD 120R/600MA FCM1608KF-1	071G59D121TA
FB4406	9965 000 45221	CHIP BEAD 120R/600MA FCM1608KF-1	071G59D121TA
FB4407	9965 000 45221	CHIP BEAD 120R/600MA FCM1608KF-1	071G59D121TA
FB4408	9965 000 45221	CHIP BEAD 120R/600MA FCM1608KF-1	071G59D121TA
FB6201	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB6202	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB6301	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB6302	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB6303	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB6304	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB6307	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB7201	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB7202	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB7203	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB7204	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB7211	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB7212	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
FB7213	9965 000 45220	CHIP BEAD 100R/3000MA HCB3216K-1	071G57K101TA
L4401	9965 000 45222	CHIP INDUCTOR 2.2UH 10% 1206	073T12622910K
L4402	9965 000 45222	CHIP INDUCTOR 2.2UH 10% 1206	073T12622910K
L4403	9965 000 45222	CHIP INDUCTOR 2.2UH 10% 1206	073T12622910K
L4404	9965 000 45222	CHIP INDUCTOR 2.2UH 10% 1206	073T12622910K
L4405	9965 000 45222	CHIP INDUCTOR 2.2UH 10% 1206	073T12622910K
L4406	9965 000 45222	CHIP INDUCTOR 2.2UH 10% 1206	073T12622910K
L6301	9965 000 42610	CHOKE COIL	073G253900HJ
L6302	9965 000 42610	CHOKE COIL	073G253900HJ
L6303	9965 000 42610	CHOKE COIL	073G253900HJ
L6304	9965 000 42610	CHOKE COIL	073G253900HJ
L7201	9965 000 42610	CHOKE COIL	073G253900HJ
L7202	9965 000 42610	CHOKE COIL	073G253900HJ
L7203	9965 000 45223	CHOKE COIL 56UH /-10% 92MOHM R10	073T253913L
D1101	9965 000 45215	DIODE LS4148	093G64S901T
D1102	9965 000 45215	DIODE LS4148	093G64S901T
D5101	9965 000 45215	DIODE LS4148	093G64S901T
D5102	9965 000 45215	DIODE LS4148	093G64S901T
D5103	9965 000 45215	DIODE LS4148	093G64S901T
D5104	9965 000 45215	DIODE LS4148	093G64S901T
D6201	9965 000 45215	DIODE LS4148	093G64S901T
D7201	9965 000 45216	DIODE BZX384-C9V1 SOD-323 VISHAY	093G39S903T
D7202	9965 000 45215	DIODE LS4148	093G64S901T
D7203	9965 000 45217	DIODE SS34 DO-214AB	093G60S904T
D7204	9965 000 37806	SURFACE MOUNT	093G60S801
D7205	9965 000 37806	SURFACE MOUNT	093G60S801
ZD5101	9965 000 45246	SMD ESD PROTECTER PESD0603-140	093G6455TY
ZD5102	9965 000 45246	SMD ESD PROTECTER PESD0603-140	093G6455TY
ZD5103	9965 000 45246	SMD ESD PROTECTER PESD0603-140	093G6455TY
ZD5104	9965 000 45246	SMD ESD PROTECTER PESD0603-140	093G6455TY
ZD5105	9965 000 45246	SMD ESD PROTECTER PESD0603-140	093G6455TY
ZD5106	9965 000 45246	SMD ESD PROTECTER PESD0603-140	093G6455TY
ZD7101	9965 000 44282	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G39S911T
ZD7102	9965 000 44282	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G39S911T
ZD7103	9965 000 44282	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G39S911T
ZD7104	9965 000 44282	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G39S911T
ZD7105	9965 000 44282	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G39S911T
ZD7106	9965 000 44282	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G39S911T
ZD7107	9965 000 44282	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G39S911T

ZD7201	9965 000 37806	SURFACE MOUNT	093G60S801
Q1101	9965 000 40045	TRA SIG SM MMBT3904 (PHSE) R	057G417903T
Q4301	9965 000 42651	TRA FET 2N7002 SOT-23 PHILIPS	057G763904
Q4302	9965 000 42651	TRA FET 2N7002 SOT-23 PHILIPS	057G763904
Q5101	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q5102	9965 000 40045	TRA SIG SM MMBT3904 (PHSE) R	057G417903T
Q5103	9965 000 40045	TRA SIG SM MMBT3904 (PHSE) R	057G417903T
Q5104	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q5105	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q6201	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q6202	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q7103	9965 000 42651	TRA FET 2N7002 SOT-23 PHILIPS	057G763904
Q7104	9965 000 42651	TRA FET 2N7002 SOT-23 PHILIPS	057G763904
Q7105	9965 000 42651	TRA FET 2N7002 SOT-23 PHILIPS	057G763904
Q7106	9965 000 42651	TRA FET 2N7002 SOT-23 PHILIPS	057G763904
Q7201	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q7202	9965 000 40045	TRA SIG SM MMBT3904 (PHSE) R	057G417903T
Q7203	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q7204	9965 000 45224	FET SI4835BDY SO-8	057G763901
Q7205	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q7206	9965 000 45224	FET SI4835BDY SO-8	057G763901
Q7207	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q7208	9965 000 45224	FET SI4835BDY SO-8	057G763901
Q7209	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
Q7215	9965 000 37397	TRA SIG SM MUN2211J(ONSE)R	057G7601PH
U1101	9965 000 42645	IC 74LV4053PW TSSOP16	056T665906
U1102	9965 000 35965	M24C02-WMN6TP	056G113334
U1102	9965 000 42647	IC AT24C02BN-10SU-1.8 SO8	056T1133907
U1103	9965 000 42633	74LVC14APM	056G4LCX14PH
U1201	9965 000 42623	TUNER, FQ1256/ I H-5	094TPALBDI1P
U4101	9965 000 42742	IC M24C64WMN6TP SO8	056T1133916
U4101	9965 000 42741	IC AT24C64AN-10SU-2.7 SO8	056T1133915
U4101	9965 000 42740	24LC64 ISNG SOIC(150MIL)	056T113378
U4102	9965 000 42646	IC M30300SAGP RENESAS	056T1125182
U4103	9965 000 42641	IC SM AME1117BCGTZ (ST00) R	056T643904
U4201	9965 000 43743	IC CS4344-CZZ TSSOP-1	056T638601
U4202	9965 000 45230	IC SVP-LX66 BGA336	056T562915
U4501	9965 000 42632	K4D26328G-VC36 FBGA144	056G615804
U4502	9965 000 42745	S29AL008D70TF1010	056T1133711
U5101	9965 000 35965	M24C02-WMN6TP	056G113334
U5101	9965 000 42647	IC AT24C02BN-10SU-1.8 SO8	056T1133907
U5102	9965 000 35965	M24C02-WMN6TP	056G113334
U5102	9965 000 42647	IC AT24C02BN-10SU-1.8 SO8	056T1133907
U5103	9965 000 45232	IC PI5C3257QEX QSOP-16	056T614905
U5104	9965 000 45233	IC PI3HDMI412FT-AZHE TQFN42	056T634900
U5201	9965 000 42635	IC CS4344-CZZ TSSOP-1	056T567900
U6201	9965 000 42637	IC 74HC4052D PHILIPS	056T6141
U6202	9965 000 45234	IC MSP3410G-QI-B8V3 PMQFP64	056G593901
U6301	9965 000 45235	IC TPA3100D2PHPR HTQFP-48	056G616251
U6302	9965 000 42631	IC TDA1308T/N2 SO8	056G613900
U7202	9965 000 45237	IC LD1117S25TR SOT223	056G563912
U7202	9965 000 45236	AP1117E25LA	056K5855A
U7202	9965 000 42627	IC AME1117BCGTZ SOT223	056G563920
U7203	9965 000 45238	IC AP1501-33K5LA TO263-5L	056T563937
U7204	9965 000 45239	AP1501-50K5LA TO263-5L	056G56320
U7204	9965 000 44277	IC AIC1596-50PM5 TO263-5	056T563926
U7205	9965 000 45240	AP1117E18LA SOT223-3L ATC	056T56327A
U7205	9965 000 42208	AME1117ECGTZ	056G56338A
U7205	9965 000 42626	IC LD1117AS18TR SOT223	056G563918
U7206	9965 000 45241	AP1501-K5LA TO-263-5L	056G56314A
U7208	9965 000 44279	AME8815BEGT250Z SOT-223BY AME	056G56344
U7209	9965 000 42629	AP1117E33LA	056G5854A
U7209	9965 000 42624	LD1117S33 SOT-223	056G1334PH
U7209	9965 000 42209	IC AME1117CCGTZ SOT223	056G563921
U7209	9965 000 45242	AP1117E33LA SOT223-3L ATC	056T5854A
1256	9965 000 45229	SERIAL IIC EEPROM ASSY	705TP756017
1257	9965 000 45231	SPI FLASH ASSY	705TP756018
PCB Assy			
1054	9965 000 45188	POWER PCB ASSY	
Various			
CN902	9965 000 44629	WAFER&PLUG 11P	033G327811
CN902	9965 000 44628	WAFER&PLUG 11P	033G801311H
CN902	9965 000 44627	WAFER&PLUG 11P 64841	033G380311FP
CN903	9965 000 43344	CON V 12P M 2.50 64842 B	033G380312FP
CN904	9965 000 44630	AC SOCKET 20174	087G501905FP
CN905	9965 000 43344	CON V 12P M 2.50 64842 B	033G380312FP
F901	9965 000 45257	FUSE 250V 6.3A	084G416
SG1	9965 000 43423	SURGE PROTECT GS41-201MA A	062G1018KW
SG2	9965 000 43423	SURGE PROTECT GS41-201MA A	062G1018KW
SG3	9965 000 43423	SURGE PROTECT GS41-201MA A	062G1018KW
SG4	9965 000 43423	SURGE PROTECT GS41-201MA A	062G1018KW
T904	9965 000 44650	2ND POWER TRANSFORMER(HJC-S6191)	080TL37T912HJ
T907	9965 000 45266	XFMR HJC-S6150	080TL47T900HJ
C900	9965 000 44612	Y1 CAP 1500PF / 250V.	065G306M1522B3
C901	9965 000 43824	Y1 CAP 470PF -10% 250VAC CD SER	065G306K4712B3
C902	9965 000 43824	Y1 CAP 470PF -10% 250VAC CD SER	065G306K4712B3
C907	9965 000 45250	EC 270UF 450V HS 35X32MM	067G4027115C
C908	9965 000 43347	CAP X2 0.68U 275V MKP	063G107K684HM
C909	9965 000 43347	CAP X2 0.68U 275V MKP	063G107K684HM
C912	9965 000 45251	CHIP 1UF 25V X7R 0805	065K080510522
C913	9965 000 44615	CAP CHIP 0805 1N 50V X7R /-10%	065G080510232K
C914	9965 000 36045	CHIP 0.047UF 50V X7R	065G080547332
C915	9965 000 43411	CER1 0805 NP0 50V 470P PM5 R	065G080547131J
C916	9965 000 36074	0.33UF -10% 25V X7R 0805	065G080533422
C917	9965 000 43409	CER2 0805 X7R 50V 33N PM10 R	065G080533332K
C918	9965 000 36074	0.33UF -10% 25V X7R 0805	065G080533422
C919	9965 000 45251	CHIP 1UF 25V X7R 0805	065K080510522
C920	9965 000 36040	0.1UF -10% 25V X7R 080	065G080510422
C921	9965 000 43460	100UF -20% 25V	067G3051014T
C922	9965 000 36040	0.1UF -10% 25V X7R 080	065G080510422
C923	9965 000 36074	0.33UF -10% 25V X7R 0805	065G080533422
C924	9965 000 36074	0.33UF -10% 25V X7R 0805	065G080533422
C926	9965 000 43457	C CAP. 1500PF 1KV	065G1K1529AT
C934	9965 000 44616	105□ RADIAL E-CAPACTOR 47UF 25V	067G3054704T
C935	9965 000 43822	CAP MPP 2.2UF 450V 5%	063G214J225GMH
C935	9965 000 43348	63G214J225GMC	063G214J225GMC
C937	9965 000 36040	0.1UF -10% 25V X7R 080	065G080510422
C938	9965 000 43822	CAP MPP 2.2UF 450V 5%	063G214J225GMH
C938	9965 000 43348	63G214J225GMC	063G214J225GMC
C940	9965 000 44619	F/C PPN 0.01UF 100V 2% EUROPTRON	064G47J1031ATE
C940	9965 000 43455	CAP PP PPN 100V S 10N PM2 A	064G47G1031ATH
C940	9965 000 45252	F/C PPN 0.01UF 100V 2% EUROPTRON	064G47G1031ATE
C943	9965 000 36040	0.1UF -10% 25V X7R 080	065G080510422
C944	9965 000 44620	C CAP.2200PF 500V 10% RC	065T517K2224AT
C945	9965 000 43458	CER2 DC B 500V S 1N5 PM10 A	065G517K1522AT
C946	9965 000 44621	EC 2.2UF 50V NK 5X11 105□	067G702297CT
C947	9965 000 43462	EC CAP 6.8UF M 50V	067G3056897CT
C948	9965 000 44620	C CAP.2200PF 500V 10% RC	065T517K2224AT
C951	9965 000 45253	EC 1500UF 35V GF 16X31.5MM	067G515A1526C
C952	9965 000 45253	EC 1500UF 35V GF 16X31.5MM	067G515A1526C
C953	9965 000 45253	EC 1500UF 35V GF 16X31.5MM	067G515A1526C
C954	9965 000 44622	85□ RADIAL E-CAPACTOR 47UF 35V	067G3094706T
C955	9965 000 44623	EC 2200UF 16V GF 13*25MM	067G5152223C
C956	9965 000 43350	15N/100V PPN	064G47J1531HEU
C956	9965 000 43351	F/C PPN 0.015UF 100V 5% HJC	064G47J1531ATH
C957	9965 000 44626	85□ RADIAL E-CAPACTOR 10UF 25V	067G3091004T
C958	9965 000 44616	105□ RADIAL E-CAPACTOR 47UF 25V	067G3054704T
C960	9965 000 45254	F/C PPN 0.033UF 100V 5% HJC	064G47J3331BHJ
C960	9965 000 45255	F/C PPN 0.033UF 100V 5% EUROPTRO	064G47J3331BEU
C961	9965 000 43411	CER1 0805 NP0 50V 470P PM5 R	065G080547131J
C962	9965 000 43411	CER1 0805 NP0 50V 470P PM5 R	065G080547131J
R913	9965 000 43395	RST CHIPR 33 KOHM -5% 1/8W	061G0805333
R914	9965 000 43876	RST CHIPR 4.7 KOHM -5% 1/8W	061G0805472
R915	9965 000 43390	RST CHIPR 22 KOHM -5% 1/8W	061G0805223
R916	9965 000 43395	RST CHIPR 33 KOHM -5% 1/8W	061G0805333
R918	9965 000 42735	RST CHIPR 47 KOHM -5% 1/8W	061G0805473
R922	9965 000 43384	RST CHIPR 12 KOHM -5% 1/8W	061G0805123
R923	9965 000 43393	RST CHIPR 330 OHM -5% 1/8W	061G0805331
R924	9965 000 44638	RST MOF 0R12 1% 1W	061G208M12852T
R925	9965 000 43380	CHIP 1KOHM 1/10W	061G0805102
R926	9965 000 43420	RST MOF 0R1 1% 1W	061G208M10852T
R927	9965 000 43380	CHIP 1KOHM 1/10W	061G0805102
R928	9965 000 44642	CHIP 8.2KOHM 1/10W 1%	061G08058201F
R929	9965 000 42735	RST CHIPR 47 KOHM -5% 1/8W	061G0805473
R930	9965 000 43380	CHIP 1KOHM 1/10W	061G0805102
R931	9965 000 43380	CHIP 1KOHM 1/10W	061G0805102
R932	9965 000 44640	330OHM 5% 1/6W	061G60233152T
R933	9965 000 43380	CHIP 1KOHM 1/10W	061G0805102
R934	9965 000 43393	RST CHIPR 330 OHM -5% 1/8W	061G0805331
R935	9965 000 43874	RST CHIPR 47 OHM -5% 1/8W	061G0805470
R936	9965 000 39749	100K 0805	061G0805104
R937	9965 000 43389	RST CHIPR 2.2KOHM -1% 1/8W	061G08052201F
R938	9965 000 43876	RST CHIPR 4.7 KOHM -5% 1/8W	061G0805472
R939	9965 000 43387	RST CHIPR 18 KOHM -1% 1/8W	061G08051802F
R940	9965 000 44641	RST CHIP 1K5 1/8W 1%	061G08051501F
R941	9965 000 43389	RST CHIPR 2.2KOHM -1% 1/8W	061G08052201F
R942	9965 000 43874	RST CHIPR 47 OHM -5% 1/8W	061G0805470
R943	9965 000 43394	RST CHIPR 3.3 KOHM -5% 1/8W	061G0805332
R944	9965 000 44642	CHIP 8.2KOHM 1/10W 1%	061G08058201F
R945	9965 000 44643	RST CHIPR 330 OHM -1% 1/8W	061G08053300F
R946	9965 000 43876	RST CHIPR 4.7 KOHM -5% 1/8W	061G0805472
R947	9965 000 42735	RST CHIPR 47 KOHM -5% 1/8W	061G0805473
R948	9965 000 43874	RST CHIPR 47 OHM -5% 1/8W	061G0805470
R949	9965 000 43420	RST MOF 0R1 1% 1W	061G208M10852T
R950	9965 000 43399	RST CHIPR 560 KOHM -5% 1/8W	061G0805564
R951	9965 000 43380	CHIP 1KOHM 1/10W	061G0805102
R952	9965 000 43379	RST CHIPR 100 OHM -5% 1/8W	061G0805101
R953	9965 000 43396	RST CHIPR 330 KOHM -5% 1/8W	061G0805334
R956	9965 000 43386	RST CHIPR 150KOHM -5% 1/8W	061G0805154
R957	9965 000 39749	100K 0805	061G0805104
R958	9965 000 45262	RST CHIPR 300 KOHM -5% 1/8W	061G0805304
R959	9965 000 44645	RST CHIP 220K 1/4W 5%	061G1206224
R960	9965 000 44645	RST CHIP 220K 1/4W 5%	061G1206224
R961	9965 000 44646	RST CHIP 180K 1/4W 5%	061G1206184
R962	9965 000 42735	RST CHIPR 47 KOHM -5% 1/8W	061G0805473
R963	9965 000 43418	2.2OHM -5% 1/6W	061G60222952T
R964	9965 000 43418	2.2OHM -5% 1/6W	061G60222952T
R965	9965 000 44647	RST CHIP 2R2 1/4W 5%	061G1206229
R969	9965 000 44648	RST CHIP 470K 1/4W 1%	061G12064703F
R970	9965 000 44648	RST CHIP 470K 1/4W 1%	061G12064703F
R971	9965 000 44648	RST CHIP 470K 1/4W 1%	061G12064703F
R972	9965 000 44642	CHIP 8.2KOHM 1/10W 1%	061G08058201F
R973	9965 000 43400	RST CHIP 620R 1/8W 1%	061G08056200F
R974	9965 000 44649	0.3OHM -1% 1/4W	061G20630852T
R975	9965 000 43876	RST CHIPR 4.7 KOHM -5% 1/8W	061G0805472
R976	9965 000 43874	RST CHIPR 47 OHM -5% 1/8W	061G0805470
R977	9965 000 43976	RST CHIP 10R 1/4W 5%	061G1206100
R978	9965 000 43396	RST CHIPR 330 KOHM -5% 1/8W	061G0805334
R979	9965 000 45263	RST MOF 120K 5% 1W	061G208M12456
R980	9965 000 43974	RST CHIPR 1 OHM -5% 1/8W	061G0805109
R981	9965 000 43974	RST CHIPR 1 OHM -5% 1/8W	061G0805109
R982	9965 000 45264	RST CHIP 15R 1/8W 5%	061G0805150
R983	9965 000 45265	15OHM -5% 1/6W	061G60215052T
R984	9965 000 43402	RST SM 1206 RC01 1R PM5 R	061G1206109
R985	9965 000 43872	RST CHIPR 2.2KOHM -5% 1/8W	061G0805222
R986	9965 000 42735	RST CHIPR 47 KOHM -5% 1/8W	061G0805473
R987	9965 000 43393	RST CHIPR 330 OHM -5% 1/8W	061G0805331
RV902	9965 000 43346	VDR DC 1MA/510 845V R	061G46902
FB903	9965 000 43424	BEAD COIL	071G55907
FB904	9965 000 43424	BEAD COIL	071G55907
FB905	9965 000 43424	BEAD COIL	071G55907
FB913	9965 000 43424	BEAD COIL	071G55907
FB914	9965 000 44293	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G55902
FB914	9965 000 40066	FERRITE CORE 2.5*3*1 BF30TA-2	071G55901

FB915	9965 000 40066	FERRITE CORE 2.5*3*1 BF30TA-2	071G55901
FB915	9965 000 44293	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G55902
FB916	9965 000 44293	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G55902
FB916	9965 000 40066	FERRITE CORE 2.5*3*1 BF30TA-2	071G55901
FB917	9965 000 40066	FERRITE CORE 2.5*3*1 BF30TA-2	071G55901
FB917	9965 000 44293	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G55902
FB918	9965 000 40066	FERRITE CORE 2.5*3*1 BF30TA-2	071G55901
FB918	9965 000 44293	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G55902
FB919	9965 000 44293	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G55902
FB919	9965 000 40066	FERRITE CORE 2.5*3*1 BF30TA-2	071G55901
FB920	9965 000 44293	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G55902
FB920	9965 000 40066	FERRITE CORE 2.5*3*1 BF30TA-2	071G55901
FB921	9965 000 40066	FERRITE CORE 2.5*3*1 BF30TA-2	071G55901
FB921	9965 000 44293	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G55902
FB922	9965 000 43839	FERRITE BEAD ZBF094T-T125S-A	071G55900
FB922	9965 000 43357	FERRITE BEAD	071G55906
FB923	9965 000 43839	FERRITE BEAD ZBF094T-T125S-A	071G55900
FB923	9965 000 43357	FERRITE BEAD	071G55906
FB924	9965 000 43357	FERRITE BEAD	071G55906
FB924	9965 000 43839	FERRITE BEAD ZBF094T-T125S-A	071G55900
FB925	9965 000 43839	FERRITE BEAD ZBF094T-T125S-A	071G55900
FB925	9965 000 43357	FERRITE BEAD	071G55906
FB926	9965 000 43918	FERRITE CORE 75R W6 RH 3.5X10X1.	071G55903
FB927	9965 000 43918	FERRITE CORE 75R W6 RH 3.5X10X1.	071G55903
L910	9965 000 44634	CHOKE COIL 2.4UH /-20% 4.5MOHM R	073T253911HJ
L911	9965 000 44635	CHOKE COIL 2.3UH /-20% 7.2MOHM R	073T253910HJ
L912	9965 000 43362	LINE FILTER 8MH 4.0A HJC-S6027	073T174915HJ
L913	9965 000 43362	LINE FILTER 8MH 4.0A HJC-S6027	073T174915HJ
L914	9965 000 45259	PFC CHOKE 270UH 70MOHM HJC-S6147	073T174919HJ
L915	9965 000 43425	PEAKING COIL 47UH -10%	073T5447010T
L916	9965 000 43425	PEAKING COIL 47UH -10%	073T5447010T
BD901	9965 000 45249	BRIDGE 8A/600V KBU8J VISHAY	093G50460903
D901	9965 000 43371	DIODE STTH8L06FP	093G220900
D906	9965 000 39775	LL4148-GS08	093G6432V
D906	9965 000 37405	BAS32L	093G64S3PH
D907	9965 000 43435	DIO REC BYT42D A (VISH) A	093G60905
D907	9965 000 43436	DIO REC RGP10D A (GULF) A	093G6490352T
D907	9965 000 40067	RGP10-DO-204AL	093G645152T
D908	9965 000 40067	RGP10-DO-204AL	093G645152T
D908	9965 000 43435	DIO REC BYT42D A (VISH) A	093G60905
D908	9965 000 43436	DIO REC RGP10D A (GULF) A	093G6490352T
D910	9965 000 39775	LL4148-GS08	093G6432V
D910	9965 000 37405	BAS32L	093G64S3PH
D911	9965 000 40067	RGP10-DO-204AL	093G645152T
D911	9965 000 43435	DIO REC BYT42D A (VISH) A	093G60905
D911	9965 000 43436	DIO REC RGP10D A (GULF) A	093G6490352T
D912	9965 000 43435	DIO REC BYT42D A (VISH) A	093G60905
D912	9965 000 43436	DIO REC RGP10D A (GULF) A	093G6490352T
D912	9965 000 40067	RGP10-DO-204AL	093G645152T
D914	9965 000 43412	DIO SIG SM BAV103 (VISH) R	093G64901T
D914	9965 000 43413	DIO SIG SM BAV103 (PHSE) R	093G52S900T
D918	9965 000 45256	DIODE BAV21	093G6450752T
D919	9965 000 43413	DIO SIG SM BAV103 (PHSE) R	093G52S900T
D919	9965 000 43412	DIO SIG SM BAV103 (VISH) R	093G64901T
D924	9965 000 43437	DIODE UF1007 1A 1000V DO-41	093G110090052T
D924	9965 000 43438	DIO REC STTH110 (ST00) A	093G110090252T
D925	9965 000 43438	DIO REC STTH110 (ST00) A	093G110090252T
D925	9965 000 43437	DIODE UF1007 1A 1000V DO-41	093G110090052T
D926	9965 000 43440	DIO REC SBYV27-200-E3 (VISH) A	093G202090052T
D926	9965 000 43439	DIODE	093G202050052T
D927	9965 000 44611	DIODE SP1060 10A/60V_ITO-220	093C60278
D928	9965 000 43439	DIODE	093G202050052T
D928	9965 000 43440	DIO REC SBYV27-200-E3 (VISH) A	093G202090052T
D929	9965 000 43413	DIO SIG SM BAV103 (PHSE) R	093G52S900T
D929	9965 000 43412	DIO SIG SM BAV103 (VISH) R	093G64901T
D930	9965 000 45256	DIODE BAV21	093G6450752T
ZD902	9965 000 43434	DIODE P6KE120A DO-15	093G3991952T
ZD902	9965 000 43426	TRANSIENT SUPPRESSOR 120V 5W	093G3990052T
ZD904	9965 000 43426	TRANSIENT SUPPRESSOR 120V 5W	093G3990052T
ZD904	9965 000 43434	DIODE P6KE120A DO-15	093G3991952T
ZD906	9965 000 44652	DIODE P4KE250A DO-41 LITEON	093G3992052T
ZD908	9965 000 43430	DIO REG BZX55-B18 A (VISH) A	093G3990852T
ZD908	9965 000 43427	DIO REG BZX79-B18 A (PHSE) A	093G3990452T
ZD909	9965 000 45267	DIODE BZX79-C9V1 DO-35	093G3992152T
IC902	9965 000 44633	SG6961	056T379901
IC904	9965 000 36353	TEA1507P	056C625500S
IC907	9965 000 36353	TEA1507P	056C625500S
IC909	9965 000 40056	TCET1103G	056G1395A
IC910	9965 000 40056	TCET1103G	056G1395A
IC911	9965 000 40056	TCET1103G	056G1395A
IC913	9965 000 43441	IC TL431ACZ S (ST00) A	056G158901
IC914	9965 000 45258	IC TEA1761T SO8	056T379903
Q901	9965 000 43368	FET POW STW18NK80Z (ST00) L	057G66727
Q902	9965 000 44610	TRA 2SK3681-01 FUJI	057T667903
Q908	9965 000 44637	TRA 2SK3530-01MR FUJI	057G66734
Q908	9965 000 44636	TRA STP7NK80ZFP ST	057G667900
Q912	9965 000 40046	BC857 SOT23	057G761900T
Q912	9965 000 37785	TRA SIG SM BC857CG (ONSE) R	057G420519T
Q913	9965 000 37785	TRA SIG SM BC857CG (ONSE) R	057G420519T
Q913	9965 000 40046	BC857 SOT23	057G761900T
Q914	9965 000 37785	TRA SIG SM BC857CG (ONSE) R	057G420519T
Q914	9965 000 40046	BC857 SOT23	057G761900T
Q915	9965 000 44261	BC847C	057G419513
Q915	9965 000 42649	TRA SIG SM BC847C (KEC0) R	057G477900T
Q916	9965 000 44261	BC847C	057G419513
Q917	9965 000 45260	MOSFET_80A/100V_FDP3632_TO-220AB	057C60069
Q918	9965 000 45261	BC337-40	057T419523T

PCB Assy

1055	9965 000 44560	SIDE AV PCB ASSY	

Various

CN041	9965 000 43811	RCA JACK 1*3 Y/W/R 2PJ-38B6-004	088T7813907S
CN041	9965 000 43812	RCA JACK 1*3 Y/W/R 69054	088T7813907FP
CN042	9965 000 43813	MINI DIN JACK 4P BLACK 1471-P41-	088T100900TN
CN042	9965 000 43814	MINI DIN JACK 4P 2MJ1501-000111	088T100904ST
CN043	9965 000 43816	PHONE JACK 3.5MM 7P BLACK 5102-8	088T302901TN
CN043	9965 000 43815	PHONE JACK 3.5MM 7P BLACK 2SJ-W4	088T302901S
C040	9965 000 42690	CAP CHIP 0603 47P 50V NPO /-5%	065G060347031J
C041	9965 000 42231	CAP CHIP 0603 330P 50V NPO /-5%	065G060333131J
C042	9965 000 42231	CAP CHIP 0603 330P 50V NPO /-5%	065G060333131J
C043	9965 000 42231	CAP CHIP 0603 330P 50V NPO /-5%	065G060333131J
C044	9965 000 42231	CAP CHIP 0603 330P 50V NPO /-5%	065G060333131J
C045	9965 000 42690	CAP CHIP 0603 47P 50V NPO /-5%	065G060347031J
C046	9965 000 42690	CAP CHIP 0603 47P 50V NPO /-5%	065G060347031J
C050	9965 000 42722	CAP CHIP 0603 6N8 50V X7R /-10%	065G060368232K
R040	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R041	9965 000 40053	RST CHIP 1K 1/10W 5%	061G0603102
R042	9965 000 42221	RST CHIPR 27 KOHM -5% 1/10W	061G0603273
R043	9965 000 40053	RST CHIP 1K 1/10W 5%	061G0603102
R044	9965 000 42221	RST CHIPR 27 KOHM -5% 1/10W	061G0603273
R045	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R046	9965 000 43336	RST CHIPR 75 OHM -5% 1/10W	061G0603750
R047	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
R048	9965 000 42212	RST CHIPR 0 OHM -5% 1/10W	061G0603000
L040	9965 000 43817	CHIP INDUCROR 0U10 10% MLF1608DR	073G63108T
L040	9965 000 43818	CHIP INDUCROR 0U10 10% FCI1608F-	073G63108TA
L041	9965 000 43817	CHIP INDUCROR 0U10 10% MLF1608DR	073G63108T
L041	9965 000 43818	CHIP INDUCROR 0U10 10% FCI1608F-	073G63108TA
L042	9965 000 43818	CHIP INDUCROR 0U10 10% FCI1608F-	073G63108TA
L042	9965 000 43817	CHIP INDUCROR 0U10 10% MLF1608DR	073G63108T

PCB Assy

1056	9965 000 45189	IR PCB ASSY	
C001	9965 000 43475	CHIP 0.1UF 16V X7R	065T060310412G
C002	9965 000 43475	CHIP 0.1UF 16V X7R	065T060310412G
R001	9965 000 45269	RST CHIP 150R 1/10W 5%	061G0603151
R002	9965 000 45269	RST CHIP 150R 1/10W 5%	061G0603151
R003	9965 000 43379	RST CHIPR 100 OHM -5% 1/8W	061G0805101
R004	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
R005	9965 000 42225	RST CHIPR 4.7KOHM -5% 1/10W	061G0603472
D001	9965 000 45268	LED SM KPB-3025SYKPBAC	081T14905KB
Q001	9965 000 40046	BC857 SOT23	057G761900T
Q002	9965 000 40046	BC857 SOT23	057G761900T

PCB Assy

1057	9965 000 45190	KEY BOARD ASSY	

Various

CN1	9965 000 45270	CON H 3P M 1.25 60923	033T80323PHFP
SW001	9965 000 40052	SWI TACT H=5 GY 160G SKHHAM B	077G6051FD
SW002	9965 000 40052	SWI TACT H=5 GY 160G SKHHAM B	077G6051FD
SW003	9965 000 40052	SWI TACT H=5 GY 160G SKHHAM B	077G6051FD
SW004	9965 000 40052	SWI TACT H=5 GY 160G SKHHAM B	077G6051FD
SW005	9965 000 40052	SWI TACT H=5 GY 160G SKHHAM B	077G6051FD
SW006	9965 000 40052	SWI TACT H=5 GY 160G SKHHAM B	077G6051FD
C001	9965 000 43475	CHIP 0.1UF 16V X7R	065T060310412G
C002	9965 000 43475	CHIP 0.1UF 16V X7R	065T060310412G
R001	9965 000 40053	RST CHIP 1K 1/10W 5%	061G0603102
R002	9965 000 42277	RST CHIPR 47 KOHM -5% 1/10W	061G0603473
R003	9965 000 42253	RST CHIPR 18 KOHM -5% 1/10W	061G0603183
R004	9965 000 42734	RST CHIPR 3.6 KOHM -5% 1/10W	061G0603362
R005	9965 000 43490	RST CHIPR 5.6 KOHM -5% 1/10W	061G0603562

11.Different Parts List

When the other projects phase in , this chapter will be updated.

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3122 785 17070	47PFL7422/93 release